A No

## KODAIKANAL OBSERVATORY

### BULLETINS Nos 1 to 13

VOLUME I

MADRAS
PRINTED BY THE SUPERINTENDENT GOVERNMENT PRESS

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Y (Y d)

# Kodaikanal Observatory.

#### BULLETIN No I

### WIDENED LINES IN SUNSPOT SPECTRA

The following observation of widehed lines in the spectra of unspots we mal between J nu ary 1903 and Lebruary 1904. Up to the end of January 1904 the work was done by or under the direction of Mr. (P. Butler Actin Director

The observations have been printed exactly as entered in the record except that all observations of the same spot have be a brought tog thei and the number of times that the same line has been observed has been indicated by a number in brackets following the wave length number. The wave lengths when given to three decimal places are from Rowland's Inelimitary Italia. The lines above the break in each column are the six lines between D and I and the six between b and I which have been selected as the most widened lines.

The observations were made with a gratine spectroscope attribute to the Lerebour and Sceretan equatorial during the first six months of the year and thereafter to the Cooke equatorial. The observations were usually made in the third order.

The observors unitials stand for the following observers —

CIB = Charles I Butlon
KVS = K V Sivarama Aiyar
SS = S Sitarama Aiyar
GN = G Nagarija Aiyan

The classification adopted is that of Lather Cortic in the Astrophysical Journal Vol XIII p 260 Where the spot formel one of a roup the classification is that of the group and not of the individual spot

The positions given it only rough but should be sufficient for identification. They have been taken either from projections of the sun's image on a disc of about 8 nucles in diameter or from photographs of the same size taken with the Dallmeyer photo heliograph. The numbers are the serial numbers for this observatory.

No 67 (A)

**—18** 

Tong 341

CLASS-IIc IIIb

Date-1	903 <b>J</b> ai	n 30 31 <i>b</i> b	3
066 174	(1)	1 6 17 1	( l)
5138 18	(4)	5671 071	(4)
5143 <i>3</i> 01	( b)	57 7878	(4)
5117(2	(1)	731 137	(4)
150 363	(T)	<b>737 28</b> 8	(4)
51 (83	(4)	5713 615	(1)
	Оb	<b>—</b> 0 Р В	

No 69

LAT +2

Long 112

CLASS-IIc

Dale-19	03 <i>I cb</i>	12 13 14 16	17
5136 70	(2)	1 ( 47 1	()
5138 18	(5)	5671 U71	(5)
1 13 301	(5)	27 87 3	(1)
5147 652	(5)	5 31 137	()
51 0 <b>3</b> € t	()	<b>57</b> 3 89	()
1 68 3	()	713 345	(5)
06C <b>174</b>	(5)	160 <b>57</b>	(2)
<b>5131</b> 697	()	72 0 8	()
5160 419	(2)	( 785)	(2)
5163 200	<b>(2)</b>	(7 04	(2)
		5703 <b>9</b> 7	(1)
		7 8 7	(1)
	Op	-O P B	

	No	70			No	79 (4)
	Lar -	<b>+2</b> 5				73 (A)
	Long	1				ı —22
					Tor	NG 303
_	CI ASS-				CLAS	ss-IIIa
	te-1903			Date	-1 )03	Feb 25 26 27
5066 174 5138 518	( ) (2)	54 6 4 4	(2)	51 270	(3)	54 6 474 (3)
5143 901	(2)	5671 071 5727 873	(2) (2)	5138 518	(3)	5071 071 (3)
5147 65	(2)	5781 487	(2)	5143 901 5147 652	(8)	5727 878 (3)
5150 363	(2)	5737 288	(2)	5150 863	(§) (8)	5781 437 (8) 787 288 (8)
<b>515</b> 6 823	()	5 43 645	(2)	51 6 823	(3)	5743 645 (3)
	ОЪ —	-O P B		5066 174	(3)	5471 4 (1)
				5184 697	(1)	5471 4 (1) 5182 078 (1)
	No '	7 I		5160 419	(1)	5190 807 (1)
	Lat -	-19		5163 00	(1)	5672 047 (3)
	Long	38			Ob	—СРВ
Ot. a	ss—IIIb				No.	70 (D)
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50661 4	-1905 <i>Fed</i> (2)				LAT	-23
5138 518	(3)	5426 474 56 10 1	(3) (3)		1 оис	<b>298</b>
5143 901	(8)	5 27 827	(2)		CLASS	s-IIIa
5147 652 5150 63	(3) (3)	5 31 437 5 37 950	(3)	Date-	1903	Feb 25 26 27
156 823	(3)	5 37 288 5743 645	(3) (3)	5136 270	(3)	
5104 00 <del>5</del>			(6)	5188 18	(8)	5426 474 (8) 6 1 071 (3)
5184 697 5163 200	()	5460 5 2	(2)	5143 901	(3)	5727 873 (3)
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				5160 419	(1)	5482 078 (1) 490 867 (1)
	No 7	2		5163 200	(1)	5672 047 (3)
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	Long 2				No 7	177 / B S
Ct. AS	ss—IVa I				No 7	
			0		$\mathbf{L}_{\mathtt{AT}}$	
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	(b)	5748 (45	(8) (8)		(11)	56 1 071 (11)
					(11)	727 878 (11)
	(8) (1)	5460 5471	(2)		(11)	5 81 487 (11)
	(1)	54 14	(1) (2)		(11) (11)	5737 288 (11) 5743 645 (11)
	(1)	548	(2)			5743 645 (11)
		548 078	(2)	5111.9	(1)	5460 (1)
		5490 54 0867	(1)	136 270 5 60 8	(3) (1)	460 (72 (2)
		4908	(1)	5168 200	(1)	5471 414 (1) 5482 078 (2)
		5627	(1)			5490 367 (2)
		5671	(1)			5627 8 (1)
		5672 047	(5)			5672 047 (11)
		5687 5 39 7	(4) (1)			687 0 (1) 687 (9)
		5740 2	(1) (1)			57167 (1)
C	)ь —о		• •			5740 195 (1)
					Ob -	-0 P B

No 78	No 99
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5150 363 (1) 737 288 (1) 5156 8 3 (1) 5718 61 (1)	5150 368 () 737 88 ()
5153 8 3 (1) 5718 61 (1)	51 68 3 (2) 1861 (2)
(72 047 (1)	504 (1) 67 017 ()
687 (1)	50661 1 () 50 70 (2)
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No 80	No 100
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5143 901 (11) 7 7 97 3 (13)	1 0 363 (2) 37 88 (3)
5117 652 (11) 5731 137 (13) 5150 3(3 (11) 5737 288 (18)	1 (823 (2) 13 61 (3)
5150 3(3 (11) 5737 288 (18) 51 6 823 (11) 713 645 (13)	01 5 (2) [1]
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( 72 017 (13) 697 (13)	5(72 017 (1)
697 (13) ()I — O P B	5(87 0 (3) Ol (IB
W. 51 B	Ci (115
No 98	No 108 (A)
Lat -30	I AT -20
I ONC 287	I ong 26
CLASS—IVe IVe IVb IIb I	$C_{ extsf{LASS}}$ — $ extsf{II}_{ extsf{c}}$
Date-1903 May 21	Date-1903 June 11
5066 171 (1) 1 6 174 (1)	500(171 (1) 4 (174 (1)
133 18 (1) 671 071 (1)	519° 270 (1) 5671 071 (1) 5143 (01 (1) 727 8 3 (1)
5143 901 (1) 5687 (1)	P1 (P 0 (P)
514765 (1) 7 7 8 3 (1) 5150363 (1) 731 1 7 (1)	5117 6 (1) 5731 137 (1) 5150 8(3 (1) 5737 98 (1)
77.70	156 8 3 (1) 43 (45 (1)
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5713 64 (1)	5687 0 (1)
Ор —СРВ	O1 -C 1 B

No 108 (B)	No 113 (B)
Lar -19	Lat +23
Long 24	Long 220
$ ext{Class} ext{II}c$	Class—II $c$ 1 $\nabla a$
	Date-1903 June 23
Date—1903 June 11	5426 474 (1)
5426 474 (1) 5671 071 (1)	5671 071 (1) <b>5727 878</b> (1)
5727 873 (1)	5781 <b>48</b> 7 (1)
5731 487 (1)	8 288 (1) 57 <del>4</del> 8 6 <del>4</del> 5 (1)
5787 288 (1) 5748 645 (1)	(4)
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5672 047 (1) Ob —C P B	ОР —ОЪВ
Оь —ОРВ	No 114
No 112	Lat —24
	Long 2 6
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Long 242	Date-19(13 June 22
${ m Class-\!$	5426 474 (1) 56 1 071 (1)
Date-1903 June 22 23 24	5727 878 (1) 5781 437 (1)
5426 474 (8)	5737 288 (1)
5671 071 (8)	5743 645 (1)
5727 873 (8)	5657 (1)
5731 437 (8)	5872 047 (1)
5737 288 (8)	Ob —OPB
5743 845 (3)	
5672 047 (8) Ob — C ⊬ B	No 116 (A)
Ob — O F B	$f L_{AT}$ $-19$
	Long 39
<b></b>	Class—IV $a$ IV $b$ $\nabla$
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$\mathbf{L_{AT}}$ $+22$	5134 6 (5) 5426 4 4 (10)
Long 226	188 518 (6) 671 071 (10) 5148 901 ( ) 5 27 873 (10)
Class—II $c$ IV $a$	5147 6 (6) 781 487 (10)
	5156 823 (6) 5787 288 (10) 5163 2 (2) 5 48 645 (10)
Date-1903 J ine 22 23 24 28	EOAF F
5426 474 (4)	5000 784
5671 071 (4)	5111 9 (1) 5460 578 (5)
57 7 873 (4)	5140 7 (1) 548 (6)
5781 487 (4) 5737 288 (4)	5144 8 (1) 5490 (2) 5148 8 (1) 5490 3 (4)
5737 288 (±) 5743 64 (4)	5150 368 (4) 5672 (2)
(3)	5160 8 (1) 5672 047 (9)
5072 047 (4)	5163 00 (1) 5680 2 (1) 5687 (9)
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5188 518	(1)	5671 0 1	(1) (1)	5006 174 (2) 51 6 474 (2
5148 901	(1)	5 783	(1)	5181 697 (2) 5671 071 (2 5118 901 (2) 727 8 8 (2
5117 652	(1)	5731 187	(1)	5118 901 (2) 727 8 8 (2) 5781 137 (2)
51 0 868	(1)	37 ⊿88	(1)	5150 868 (2) 5737 288 (2
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5138 518	(1)	5671 071	(1)	4 ( (1)
5148 901	(1)	57 7873	(1)	5671 (1) 7 7 (1)
<b>514</b> 7 6	(1)	5781 <del>4</del> 87	(1)	7 7 (1) 737 (1)
1 0 803	(1)	5737 288	(1)	731 (1)
5156 823	(1)	5 13 615	(1)	f 13 (1)
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		358		La: +18
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5138 18	(1)	5671 071	(1)	5113 J01 (1) 1 f (1)
5143 901	(1)	5727 873	(1)	(71 1
5 47 652	(1)	5781 137	(1)	57 7 (1
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5156 823	(1)	5 43 645	(1)	5737 (1
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$\mathbf{Cr}$	ass—IVa	IVe IIIb		No 152
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5186	(1)	54 6	(1)	I (r + 12
188	(1)	5671	(2)	I ona 218
5143 901 5147	(1) (1)	5727 5 31	(2)	OLASS-IVC IVC IVC
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5156	(1)	5748	(2)	5066 174 (8) 6211 4 4 (8)
188 6	(1)	5426 474	/1\	5138 518 (2) 8 71 ( )
5143 9	(1)	5482	(1) (1)	51.18 001 (3) 57 H78 (6)
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	Ob rv —	-O P B		8100 823 (2) 8 11 <del>(148</del> (8)
				4)200 (2) 51910 (1)
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5066 174 5138 518	(4) (4)	5426 474	(4)	5184 y (8) B(2 (4)
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5 47 652	(4)	5731 <b>43</b> 7	(4) (4)	5188 6 (1)
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5043 8 5134	(1)	5460 6	(1)	51.18 J (2) 5781 ; (1)
5184 5	(1) (1)	5471 8 5482	(1)	5149.0
5186 270 5159 9	(1)	5490	(2) ( )	5148.)
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		56 7 56 2 047	(8)	5150 8 (9)
		5687	(4) (4)	5150 6 (1)
	Ob r-	CPB	• /	5162 (8)
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5066 174	(2)				LONG	297	
138 518	(1)	5426 174 5671 071	(2) (3)		•		
5143 901	(2)	5727 878	(2)		CLASS-	-V IIIa I	
5147 652	(2)	5781 487	(2)		Dada 100	ne	
5150 863 5156 82 <b>3</b>	(2) (1)	787 288 5743 64	(2)		Date-19(	03 Oct 30	
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5045 5	(1)	5460	(1)	5134 7	(1)	5727 9	(1)
5087 8 5184 6	(1) (1)	5482 0	(1)	1439	(1)	<b>5731 4</b>	(1)
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5186 8	(1)	672 017	(8)	<b>5160 6</b>	(1)		• •
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5150 6	(1)						
5152 3	(1)						
161 1	(1)						
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	No 15	66			No	161	
	No 15						
	Lar +1	15			No Lat		
Ora	Lar +1 I ong 92	l5 B			Lat	+17	
	Lar +1 I ong 92 ass—IVa IV	l5 Pb IVa	99.94			+17	
Date 1903	Lar +1 Tong 92 Ass—IVa IV Oct 15 19	15 8 Vb IVa 20 21 92	-	<i>(</i> -	Lat Long	+17 236	
Date 1903 5015 5	LAR +1 TONG 92 ASS—IVa IV Oct 15 19 (8)	15 8 Vb IVa 20 21 92 51 64	(1)	<b>C</b> r.	Lat Long	+17	
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O MICHIE SMITH

Director

KODAIRANAL November 1904

MADRAS

RINTED BY THE SUIEBINTENDENT GOVERNMENT I RESS

1905

### Kodaikanal Observatory

#### BULLETIN No II

## LIST OF PROMINENCES OBSTRVED BETWEEN 1903 SEPTEMBER 1 AND 1904 DECEMBER 31

The following list contains all prominences observed between 1908 September 1 and 1904 December 31. They were made with the 6 1 ch Cool equatorial and a grating spectroscope up to 1904 December 1 and for the rest of the time with a three prism Evershed spectroscope. Up to 1:04 February 21 observations were made with only eight settings of the position circle so that the record up to that time cannot be considered quite complete.

The heights of the prominences are measured by reference to the known width of the slit a method which if somewhat rough seems sufficiently accurate for the purpose and is very rapid. Many of the measurements have been checked by reference to photographs taken with the spectro heliograph and have been found quite satisfactory. Prominences of 1 ss than 10 seconds in height are not usually entered in the list inless they present some feature of interest. Almost all the observations were made in the C line but in the case of metallic prominences other parts of the spectrum were list observed.

The observations were made up to the end of January under the direction of Mr ( P Butler The observers we e K V Sivarama Aiyai (K V o) > Sitarama Aiyai (S S) and G Nagar ja Aiyai (G N)

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O MICHIE SMITH
Do cto K d k n l rd Madr Obser torse

19th Jun 1905

# Kodatkanal Observatory.

### BULLETIN No III

# D AS A DARK LINE IN THE SOLAR SPECTRUM

OBSERVATIONS of D<sub>8</sub> as a dark line in the solar spectrum have been eported so inficiently that it is usually held that the occur ence must be very rare. Prof Young (T/ Sun page 10) says at time and especially in the neighbourhood of sunspots a very faint dark line marks its (D) place but usually he spectrum of the photosphere fails to give the slibitest i dication of its prisence. Prof H l in his account of the spectrum of the great sunspot rough of 1802 says. D<sub>8</sub> was one suspected as a dark line. (A and A P Volume XI page 312) More recently so oral cases have been reported (A Lowler M N V lum T V page 514 Kroussle. Ast. No. 1 N. 4012. A. A. Buss. The Observatory N. 3.8. page 1) and it seems to be well to put on record the observation on this point which law be n made here.

Since the middle of March 1901 it has been part of the regular routine would in the object 1) to make a careful sea chifor D<sub>8</sub> in and near spots. The results a egiven in the following table. Met of the possivations were made by Mi \Sitaian i Iye and Mi (i Na a apa Iyer and I have plasonally cheel that umber i them. When the spot is near the limb it is asy to not o sure of the exact coincid is between D<sub>i</sub> s in birch the chromosphere and the suspect detail his and measures here the spot has been too following table. It is not in the chromosphere and the suspect detail his and measures here the spot has been too following table.

As a general rule it may be sail that the more distribution spot is the restrict the probability of Ds appearing as a darl has but ever deases he recooled its appearance in spots that it quiet is total by the behaviour of the C line. The reverse of this is also true—D being absent in vive distribution to certain cases Ds can be traced through the spot but in the majority of cases its rather the restriction in ling the spot than the petritical which yill the bull line. At times the line can be true it to len list in o from the spot and in fact the air affect is certain the scale of the discountribution in that cit the restriction of the scale of the discountribution is that cit the restriction of the scale of the discountribution is that cit the restriction of the scale of the discountribution is that cit the restriction of the scale of the discountribution is that cit is a considered as a scale of the discountribution is that cit is a considered as a scale of the discountribution is that cit is a considered as a scale of the discountribution is that cit is a considered as a scale of the discountribution is the city of the scale of the discountribution is the city of the scale of the discountribution is the city of the scale of the discountribution is the city of the scale of the discountribution is the city of the scale of the discountribution.

The line varies greatly in visibility (i in luliuse) in difficient pets. It sometimes is such a series of interest in the series of the series

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1905

# Kodatkanal Observatory.

### BULLETIN No IV

# WIDLNED LINES IN SUNSPOT SPECTRA

THE following observations are a continuation of those published in Bulletin No I and have been made in exactly the same manner instrumen was used up to 1901 December 1 and thereafter the grature spectroscope was replaced by a 3 piism Evershed spectroscope One slight change has however been made Instead of attempting to choose out the 12 most widened lines an estimate on a scale 1 to 10 was made of the amount of widening of each line and the mean of the estimates is given in column 3 No great confidence can be placed in those estimatesespecially at first-but even a rough estimate seemed better than no estimate at all and after a few weeks practice it was found that the two observers agreed fairly well with each other

The spot number given is the Kodarkánal serial number but wherever possible the Greenwich number has been added in brackets. For these and for the positions of the spots to the end of 1904 the Director is indebted to the Astronomer Royal who has kindly forwarded advanced proofs of measures and positions of the spots for 1904.

The results for all the spots have been collected in a catalogue at the end and a number of notes have been added giving the most interesting features of the daily observations of spot spectra other than those dealing with widened lines

The observors were S Sitarama Aiyar (SS)
G Nagaraja Aiyar (GN) and towards the end
K V Sivarama Aiyar (KVS)

# No 229A (Gr 5174b) LAT - 14 LONG 129 CLASS—IIIb IIc IIa IVb IVa

	Date-	1904	Mar	ch 3	4	
W	l <sub>b</sub> th	N Ob	mb t	f	M W l	g
4)	12 083		1			٠
	43 761		2			
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	4 154		1		7	
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	C 823		1		(	
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	0 572		1		7	
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	B (Gr 5	174a)	No 230 (Gr 5180	)b)
I	JAT - 13		Lar +12	
1	LONG 127		Long 46	
Class—III	b IIc IIa T	Vb IVa	CLASS—I II $c$	
Date— 19	004 March 3	4 o	Date—1904 March 9	
W 1 gth	N mb f Ob t	M Wd g	W l gth Ob t n W	M d g
4901 52	1		043 761 1 5045 582 1	
4942 083 50 9 80	1	0	5053 056 1	
50 4 80 5048 761	1 2	8 5	5066 174 1	
5045 582	2	7	5067 874 1	
5066 1 1	2	4	5149 JO1 1 511 652 1	
5067 874 5050 453	1	0	515( 368 1	
5070 471 5079 921	1 1	6	5426 474	
5087 239	ī	8	54CO 72 1	
5091 89C	1		5671 071 1	
092 058	1	_	567 047 1 5727 878 1	
5113 61 <b>7</b> 5131 849	1 1	5 e	5781 437 1	
5148 01	2	6 5	573 SS 1	
5147 652	2	9	Ob G'V	
5150 868	2	8		
5152 861	1	7		
5160 419 5161 858	1 1	5 4		
5426 174	3	-	No 232 (Gr 5179	7. \
5432 753	2	6	NO 252 (OF 5179	0)
5460 572	1	10	Lat +17	
5471 411 5472 916	1 1	9 6	T 00	
5478 900	î	U	Long 67	
5479 988	1	9	CLASS—I IIIb IIb	
<b>5</b> 482 078		70		
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5488 874 190 867	1	7	Date—March 10 11	
5488 374 190 867 5527 796			W loth N b f 1	Μ
190 867 5527 796 0 997	1 1 1	7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
190 867 5527 796 0 997 558 202	1 1 1 1	7 5 5	W 1 gth N b f 1 4905 107	dg 4
190 867 5527 796 0 997 558 202 5541 110	1 1 1 1 1	7 5 5 8	W 1 gth N b f 1 4965 107 4965 351 1	d g 4 4
190 867 5527 796 0 997 558 202 5541 110 5027 8 9	1 1 1 1 1 2	7 5 5	W 1 gth N b f 1 4965 107 4965 351 1 5043 761 1	d g 4 4 7
190 867 5527 796 0 997 558 202 5541 110	1 1 1 1 1	7 5 5 8	W 1 gth N b f 1 4965 107 4965 851 1 5043 761 1 5045 454 1	d g 4 4 7 6
190 867 5527 796 0 997 553 202 5541 110 5627 8 9 5614 305 5648 796 5671 071	1 1 1 1 1 2 1 2	7 5 5 8 8 8	W 1 gth N b f 1 4965 107 4965 351 1 5043 761 1 5045 454 1 5045 582 2 066 078 1	d g 4 7 6 6 6
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190 867 5527 796 0 997 553 202 5541 110 5627 8 9 5614 305 5648 796 5671 071 5672 047 687 068 5687 192 5689 694 5698 746	1 1 1 1 1 2 1 2 2 2 2 1 1 1	7 5 5 8 8 8 5 10 8 6	W 1 gth N b f N 4965 107 4965 351 1 5043 761 1 5045 454 1 5045 452 2 066 078 1 066 174 2 5134 697 1	d g 4 4 7 6 6 6 6
190 867 5527 796 0 997 558 202 5541 110 5627 8 9 5614 305 5648 796 5671 071 5672 047 687 068 5687 192 5689 694 5698 746 5700 40	1 1 1 1 1 2 1 2 2 2 2 1 1 1 1 2	7 5 5 8 8 5 10 8 6 10 7	W 1 gth N b f W  4965 107 4965 851 1 5043 761 1 5045 454 1 5045 582 2 066 078 1 066 078 1 066 174 2 5184 697 1 5186 270 1 5147 652 2 5150 368 1 5 19 87 1	d g 4 4 7 6 6 7 7 1
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190 867 5527 796 0 997 558 202 5541 110 5627 8 9 5614 305 5648 796 5671 071 5672 047 687 068 5687 192 5689 694 5698 746 5700 40 5703 797 5708 622 5712 996 5727 878	1 1 1 1 2 1 2 2 2 1 1 1 2 1 1 2 1	7 5 5 8 8 5 10 8 6 10 7	W 1 gth N b f 1 4965 107 4965 851 1 5043 761 1 5045 454 1 5045 582 2 066 078 1 066 174 2 5134 697 1 5136 270 1 5147 652 2 5150 368 1 5 19 87 1 280 561 1	d g 4.4.7666667714
190 867 5527 796 0 997 558 202 5541 110 5627 8 9 5614 305 5648 796 5671 071 5672 047 687 068 5687 192 5689 694 5698 746 5700 40 5703 797 5708 622 5712 996 5727 878 5731 487	1 1 1 1 2 1 2 2 2 1 1 1 2 1 1 2 2 2 2 2	7 5 5 8 8 8 10 8 6 10 7 6	W 1 gth N b f 1 4965 107 4965 351 1 5048 761 1 5045 454 1 5045 582 2 066 078 1 066 174 2 5184 697 1 5136 270 1 5147 652 2 5150 368 1 5 19 87 1 280 561 1 54 6 474 5460 572 2 54 7 901 1 5482 0 8	d 4476666677148666
190 867 5527 796 0 997 558 202 5541 110 5027 8 9 5614 305 5648 796 5671 071 5672 047 687 068 5687 192 5089 694 5698 746 5700 40 5703 797 5708 622 5712 996 5727 873 5731 437 5737 288	1 1 1 1 2 1 2 2 2 1 1 1 2 1 1 2 2 2 2 2	7 5 5 8 8 8 10 8 6 10 7 6	W 1 gth N b f 1 4965 107 4965 851 1 1 5048 761 1 5045 454 1 5045 454 1 5046 582 2 066 078 1 066 174 2 5184 697 1 5186 270 1 5147 652 2 5150 368 1 5 19 87 1 280 561 1 54 6 474 5460 572 2 54 7 901 1 5482 0 8 1 5627 859 1	d 44766666771486655
190 867 5527 796 0 997 558 202 5541 110 5027 8 9 5614 305 5648 796 5671 071 5672 047 687 068 5687 192 5089 694 5698 746 5700 40 5703 797 5708 622 5712 996 5727 873 5731 437 5737 288 5739 698	1 1 1 1 2 1 2 2 2 1 1 1 2 1 1 2 2 2 2 2	7 5 5 8 8 8 10 8 6 10 7 6	W 1 gth N b f 1 4965 107 4965 351 1 5043 761 1 5045 454 1 5045 582 2 066 078 1 066 174 2 5134 697 1 5136 270 1 5147 652 2 5150 368 1 5 19 87 1 260 561 1 54 6 474 5460 572 2 54 7 901 1 5482 0 8 1 5627 859 1	d 44766666771486657
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190 867 5527 796 0 997 553 202 5541 110 5627 8 9 5614 305 5648 796 5671 071 5672 047 687 068 5687 192 5689 694 5698 746 5700 40 5703 797 5708 622 5712 996 5727 873 5781 497 5787 288 5789 698 740 195 5741 088 5748 182	1 1 1 1 2 1 2 2 2 1 1 1 1 2 2 2 2 1 1 1 2 2 2 2 1 1 2 2 2 2 2 1 1 2	7 5 5 8 8 8 10 8 6 10 7 6	W 1 gth N b f 1  4965 107  4905 351 1  5043 761 1  5045 454 1  5045 682 2  066 078 1  066 174 2  5134 697 1  5136 270 1  5147 652 2  5150 368 1  5 19 87 1  260 561 1  54 6 474  5460 572 2  54 7 901 1  5482 0 8 1  5627 859 1  5667 2047 2  5672 047 2  5727 873 2  5731 487 2	d 444766666771486 657788
190 867 5527 796 0 997 553 202 5541 110 5627 8 9 5614 305 5648 796 5671 071 5672 047 687 068 5687 192 5689 694 5698 746 5700 40 5703 797 5708 622 5712 996 5727 873 5731 437 5737 288 5739 698 740 195 5741 088	1 1 1 1 2 1 2 2 2 1 1 1 1 2 2 2 2 1 1 1 2 2 2 2 1 1 2 2 2 1	7 5 5 8 8 8 10 7 6	W 1 gth	d 44766666771486 65778

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—SS and GN

Оb

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			71			
No 235	Gr 5	182a)		W l gtl	N mb f Ob t	M Wdg
3	Lat — 17			5225 101	1	
т	Long 313			5225 695	1	3
	70MG 919			5288 712	1	6
Class-	-IVa IIIb	ſVδ		5 89 13	1	6
Date-19	904 March 9	to 19		282 576 52J5 955	2 1	6 5
				5331 641	1	5
W l gth.	N b f Ob t	Mn Wdg		5306 616	1	_
4862 029	1	5		5426 174	9	9
<b>4</b> 862 783	1	8		5132 753	5	7
4861 919	1	4		5147 454	1	6
4875 671	1	3		51 7 610 5160 572	2 9	6
4885 264	1	8		471 414	3	7 9
4965 107 4977 833	6 1	7		5177 901	2	7
4997 283	1	6		5482 078	7	7
5001 105	î	8		5190 367	7	€
5009 8 9	7	7		54J0 905	2	4
5013 179	1	4		5504 117	2	4
5016 310	2	8		5 12 013	1	8
5048 761	8	8		5580 907 56 7 859	1 5	7
5015 1 4	5	6		5671 071	ь 9	6 7
504 582 50 8 056	9	7		5672 047	9	7
058 170	1 2	8 5		508981	2	5
5058 301	1	5		5703 797		4
5061 882	î	4		5 07 204	1	3
(62 066	1	5		5707 265	1	8
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063 3 5	1	4		57 7 873	9	9
5066 078	4	ŗ		₹731 437 5737 88	9 9	9
5086 17 I 5067 874	7	7		578 ) 098	9 2	9 4
5085 513	1 1	4		5739 873	ī	5
5087 239	•	8 7		57 (0 1 )5	3	4
0)1 896	1	5		5713 645	7	7
5096 031	1	6		570( 50	1	3
509 215	1	6		58( G 775	1	8
5134 697	ŧ	5		900 260	1	6
5136 270	4	5		<b>5</b> 90 <b>3</b> 7 18 <b>5</b> 918 635	1 1	8
5188 690 5140 386	2	5		9 2 735	1	4 5
5140 553	1 1	6		5978 768	2	8
5113 101	4	8 <b>5</b>		6001 095	1	7
5114031	1	6		6012 150	1	1
117 652	10	7		6089 958	1	5
5119 964	1	7		6063 080	1	2
<b>51</b> 0 363	8	7		6081 CG5	2	4
5152 361	2	5		6085 470	1	1
51 68 8	1	6		6111 872 6126 43	1 1	G A
5 57 103 5160 554	2 1	7 5		C185 580	1	6 7
510 902	1	5 5		6199 398	2	5
5163 074	2	6		6210 895	2	4
51°3 200	1	9		6243 320	1	4
51°6 454	1			6252 048	1	4
5194 216	1	5		6806 024	1	8
5219 875	9	8		Оъ	v s—SS dG	N

No 237	(Gr 5	183 <i>a</i> )	W 1 th N mb	e M
•	Lat + 9			Wd
			5698 746 1 5703 797 1	7
1	LONG 236		5707 04 2	6
O	LASS—IVa		5716 671 <b>2</b>	9
	04 March 1	0.4.00	5727 878 10	9
Dave19		0 70 20	5781 437 10	9
W l th	Nmb f Ob t	M n Wd gr	5787 288 10 5789 084 1	9 7
4862 029		_	5740 195 1	7
4864 919	1 1	7 7	5748 C45 7	•
4 65 107	3	8	5785 952	
4997 283		8	6240 868 1 6 43 320 1	
5001 165	2	7	6271 486 1	
5009 829 5020 208	7 1	8	6274 870	
5025 203	i		6366 707 1	
5025 749	1		6455 820 1	
5013 761	3	7	Ob —SS nd	G N
5045 454 5045 58	5 10	<b>H</b>		
5058 170	2	7		
5066 078	4	•	No 239 (Gr 5	184a)
5066 174	9	8		,
5067 874	1	7	Lat + 18	
5071 666 5085 341	1	7 7	T 200	
508 513	i	6	Long 236	
5087 289	4	7	CLASS-I TVb IVc	$T\nabla_a$
5184 697	_			
5186 270 5188 518	2 1		Date-1904 March 20	21 22
5188 690	1		W 1 gth N mb f	M
5140 836	ī		'' ' ' Suit Ob t	W d g
5140 5 3	8	7	4905 107	7
5141 198	2	7	5001 165 1	
5143 901 5144 081	5 1	6	5009 829 2 5048 761 1	
5147 652	10	8	5045 454 1	6
5150 868	10	8	5045 582 2	6
5157 168	1		5066 078	
5160 554 5163 200	1 1		5066 174 8 5071 666 1	8
5219 875	9	7	5071 686 1 5085 513 1	•
5225 695	1	•	5087 239	7
5238 742	1		5198 518	-
5260 561 5300 152	1 1	6	5140 553 2 5141 193 2	7
5804 355	2	6 5	5141 198 2 5148 901 1	7
5396 778	ĩ	8	5147 652 3	8
5397 822	1	7	<b>51</b> 50 363 3	8
5426 474 5482 58	9	9	5219 875 2 5497 474	_
5460 572	8 7	6 9	5426 474 9 5432 758 1	9
5471 114	i	9	518 572 2	6 9
474 486	8	8	<b>5477</b> 901 1	6
5477 901	8	6	5482 078 1	au
548 078 5490 367	6 <b>5</b>	8	5627 859 2 5671 071 2	7
490 905	ı	7 8	5671 071 2 5672 047 2	9- 9
5504 117	ī	8	5708 797 1	8
5580 997	1	7	5707 204 1	8
5608 993 5627 859	1	8	5727 878 8	9
5671 071	8 10	7 9	5781 487 8 5787 288 9	9
5672 047	8	9	5748 845 1	9
5687 063	1	8	5866 675 1	
5689 694	8	7	Ob v —ss ag	N
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# No 240 (Gr 5186a)

## No 242 (Gr 5187a)

LAT + 10

Long 186

LAT + 19

## CLASS—V IIIb IVd IVc

### Long 153

### Date-1904 March 20 21 24

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W l gth	N mb Ob rv		~	Date	1904	March 22	24	25 26	28
4965 107	2		g		gtl	N mb	ŧ	м	
5001 165	1			44 7	Ren	Ob t		W d	g
5009 829	2			4862	029	2		7	,
5019 864	1			4864	919	2		8	
<b>502</b> 0 208	1	•		4905	810	1		6	
5025 027	1			4921	963	1		8	
5025 749	1			4928	511	1		7	
5043 761	1	G		4965	107	3		8	
50 15 454	2			4997	283	2		8	
5045 582	8	7		5001	165	2		7	
5053 170	1			5009	829	F		8	
5066 078	1			5013	761	4		7	
5066 174	3	7		5045	454	1			
5071 666	1			5045	582	5		7	•
5085 841	2	7		5053	170	1		7	
5085 518	1	7		5066	078	1			
<b>5</b> 087 289	2	7		5068	174	5		8	
5184 697	1			5071	coe			7	
5136 70	1			508	341	1		7	
5138 518	1			5085	13	1		6	
5138 690	1			5087	89	3		7	
5140 558	1			5110	53	1		7	
5141 198	1	7		5141	193	1		7	
<b>5143 901</b>	1			51 13	901	1			
<b>5144</b> 0 <b>31</b>	1			5117		5		8	
5144 203	1	7		5150		5		8	
5147 652	3	8		521 <del>9</del>		5		7	
5150 363	8	8		580 L		1		4	
5160 554	1			<b>53</b> 90		1		8	
5163 200	1			5397		1		7	
5219 875	2	7		<b>54</b> 6		5		Ð	
5804 855	2	4		543		3		6	
5426 474	8	10		54C0		4		9	
5460 572	3	10		5177		4		6	
5477 901	1	6		5482		4		8	
5482 078	2	7		5490		9		7	
5490 367	2	G		5627		5		8	
5627 859	2	8		5071		5		9	
5671 071	8	10		5672		5		9	
5672 047	8	10		5689		2		7	
5689 691	1			5698		1		7	
5716 671	2	8		5707		1		6	
5727 878	8	10		5710		1		8	
5781 487	8	10		5727		5		9	
5787 288	8	10		5731		5		9	
5748 645	2			5787		5		9	
5785 <del>4</del> 98	1			5743	645	1			
ОЪ	v —88	d G N			Оъ	8 B	d G	N	

No. 24	46 (Gr 51	OE \	***
140 2-		95a )	No 251 (Gr 5200a)
	LAT + 15		Lat $+18$
<b>a</b>	Long 105		Long 21
	s—IVa IIIb IV		CLASS-IIIb IVd IVb IVa
Date-1904	March 26 28 2	29 30 <b>3</b> 1	Date-1904 April 6 7 8
W le gth	N mb f Ob t	M n Wdnig	W 1 oth Numb f M
4862 029	8	7	4969 ono
4864 919	8	7	4862 732 1 7 4862 732 1 7
4875 671 4905 310	1	7	4862 788 1 7
49 1 963	1 1	6	4965 107 1 7 5009 829 3 8
4928 511	1	8	5048 761 1 7
4965 107	8	7 8	5045 582 8 7 5053 056 1 5
4997 283	2	8	5086 174
5001 165	2	7	087 239 1 5138 690 1
5009 829	5	9	5143 901 g
5048 761	8	7	5147 652 8
5045 82	4	7	5149 018 1 7 5150 368 3 8
5058 170	1	7	5219 875 2 8
5066 174	5	8	52 5 695 1 5288 742 1
5071 666	1	7	542( 474 8
5085 513	1	6	5482 758 8 7
5087 289	2	8	5460 572 8 9 5477 901 1 8
5134 697 5186 270	1 -		5482 078 2 8
5188 690	1		5400 aga 6
5143 901	2		5490 90 1 8
5147 652	2 <b>5</b>		5627 859 8 7
5150 363	5	8	5672 047 3 9
5219 875	5	8	5689 694 1 8
5225 695	1	7	5793 797 1 6 5727 878 2 9
5804 355	1	5	5 81 487 8 9
6896 778	1	8	5787 288 2 9
5397 822	1	7	7
542 474	5	9	A D P B B G A
5 <b>4</b> 82 758	4	6	
5460 572	8	9	No 254A (Gr 5202a)
5477 901	8	7	
5482 078 5490 387	8	8	$L_{AT} - 15$
5627 859	2	8	Long 279
5671 071	5 5	7	CLASS—IIc IIIa
5672 047	5	8	Date-1904 April 8 9 11 12 13 14 15 16 19
5689 694	2	8 7	The state of the s
5698 746	1	7	$egin{array}{cccccccccccccccccccccccccccccccccccc$
5707 204	1	6	4862 029
5727 878	5	8	4864 919 3
5781 437	5	8	4870 828 2 4875 6 1 1
5787 288	5	8	4985 107
5748 645	2		5009 829 8 8
Op	—вв аси		5018 479 1 6
			5016 840 1 7

W lngth	N mb f Ob t W	M n. d g	W 1 gth	N mb f Ob t	M Wdg
5043 761	5	7	5605 171	1	G
5045 58	8	7	562G 245	2	6
5058 056	2	5	5627 859	7	8
5066 174	8	6	5646 822	1	7
508 518	2	8	5649 804	î	7
5085 668	1	в	5657 667	ī	7
508 289	2	8	5668 593	1	7
5096 357	1		5671 071	9	9
5120 592	1	8	5672 047	9	9
184 697	4	6	5687 063	2	J
5186 270	3		5689 694	1	8
5186 885	1	6	5698 746	4	8
5188 279	1	6	5700 <del>4</del> 02	3	7
5188 690	5	7	5703 797	1	7
5139 087	1		5707 <b>204</b>	3	7
5140 336	1		5712 996	1	•
5140 558	5	7	5716 671	5	8
5141 386	2	7	5720 666	1.	
5148 288	1	8	5727 271	1	
5148 901	4.	8	5727 873	9	10
5144 081	1		5731 <del>4</del> 37	9	10
5144 203	1		5787 288	9	10
5 14 817	1		5739 698	2	7
5147 65 5150 863	9	8	<b>571</b> 0 <b>195</b>	1	
	9	8	5748 G45	7	10
5150 828 5160 554	8	8	5762 479	2	5
5163 074	1	8	5766 550	2	6
5163 200	1	9	5786 198	1	
5103 200	1	8 7	5823 910	1	8
5219 875	5	8	5866 675	8	7
5224 471	1	0	586 785	8	7
5 25 695	2		5873 436	1	5
5225 974	ī		5878 015 5000 050	1	5
5238 742	5	8	5880 250	1	4
289 137	4	8	918 773 5J22 785	1	6
5804 855	1	-	5938 270	1	4
5831 611	1		942 789	1	4
5351 261	1	7	5978 768	1	6
5866 616	1	9	5988 785	î	4
5898 375	1		992 218	î	2
5894839	1	4	5999 920	1	4
5396 935	1	7	6089 958	1	6
5426 474	9	9	6063 080	1	2
5432 753	8	8	6064 859	1	4
<b>54</b> 60 <b>572</b>	9	9	6081 665	1	6
5470 208	1	7	6085 470	1	2
5471 414	8	8	6090 429	1	6
5474 480	1	8	6091 395	1	6
5477 901	4	7	6111 8 2	1	10
5182 078	8	7	6118 8	1	8
5490 867	9	8	6126 435	1	8
5490 905 550 ( 117	6	8	6135 985	1	4
5501117 5 14753	3 8	7	0150 360	1	6
5 14 753 5517 084	i	7	6154 438	1	2
5580 997	1	6	6199 898	1	6
5588 025	2	6 6	6210 895	1	6
4400 V2 <b>0</b>	<i>u</i>	U	6217 900	1	

W 1 gth	N mb f Ob t n	Mon. Wdg	W 1 gth	N mb f Ob t	M. n. Wdg
6243 055	1	6	5672 047	2	9
6 48 540	1	10	5687 063	1	-
6252 048	2	6	5698 746	1	8
6308 985	1	4	5700 402	1	7
6806 024	2	5	5707 204	1	7
6868 090	1	7	5716 671	1	7
6366 564	1	7	5727 873	2	10
6450 033	1	5	5731 437	2	10
6455 820	1	7	5737 288	2	10
6462 784	1	4	5748 645	2	10
6471 885	1	5	5762 <b>4</b> 79	1	4
6475 846	1	5	5766 550	1	4
6494 004	1	6	Оъ	—88 d	G N
6495 218	1	6		~~ ~	<u> </u>
6578 030	1	8			
Ob	-88 dG	. NT			
0.0	-55 44		No 261	(Gr 5	<b>206</b> <i>a</i> )
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
No OFAT	) <i>(</i> C= E	2025	La	r + 19	
	3 (Gr 5	2020)	Lo	ng 197	
L	<b>AT</b> - 18		CLAS	s—IVa IV	Ъ
L	ong 273		Date-1904 A	pril 16 18	19 20 21
CLA	ss—IIc IIIa		W l gth	N mb f Ob t	M Wd mg
Date-1	904 April 11	12	4965 107	8	8
W l gth	N mb f Ob t	M Wdig	5009 829 5018 <b>4</b> 79	5 1	8 G
400 T T OF		•	5016 340	1	7
4965 107	1	8	5043 761	2	7
5009 829	1	-	5045 582	2	7
5043 761	2	7	<b>5058 056</b>	1	Ġ
5045 582 5058 056	2 1	8	5062 <b>0</b> 66	1	7
5086 174	1 2	0	5062 285	1	7
5085 513	1	8 7	5066 174	4	8
5087 289	1	7	508 668	1	6
5184 697	1	4	5087 289	1	•
5186 270	1		5096 357	1	
5140 553	î		5138 690	8	7
5148 901	ī	7	5140 553	3	7
5147 652	2	7	5141 886	1	- 6
5150 868	2	8	5148 901	1	
5156 828	1	9	5144 031	1	8
5163 074	1	9	51 <del>44</del> 847	1	
5219 875	1	· ·	5147 652	5	8
5225 695	1		5148 851	1	
<b>5426 474</b>	2	10	5150 363	4	8
5482 753	2	9	5156 828	1	7
5460 572	2	10	5160 <b>5</b> 54	ī	7
547 901	1	8	5168 200	1	8
5482 078	2	8	164 007	2	8
5490 367	2	9	5219 875	4	8
5490 905	2	9	5225 695	1	-
5504 117	1		5288 742	2	8
5627 859	2	8	5239 187	2	8
5871 071	2	9	5282 576	1	7

W l gth	N mb f M Ob t Wd	w 1 gtl	N mb f Ob t n	M n Wd mg
5297 407	1 5	5134 505	1	8
5800 152	1 6	5134 697	1	8
5851 261	2 7	5139 087	1	8
5366 616	1 9	5140 386	ī	-
5393 375	1	5140 558	1	7
5394 889	1 4	5141 386	1	7
5396 935	1 7	5143 901	2	8
5426 474	5 8	5144 081	1	8
5482 758	8 7	5147 652	2	8
<b>54</b> 60 <b>572</b>	5 9	149 018	1	8
5471 414	1 8	5149 96 4	1	8
54/74 486	1 8	5150 368	2	8
5477 901	2 7	5156 828	1	8
5482 078	8 7	5160 54	1	8
5490 367	4 8	5164 007	1	8
490 905	3 8	5210 059	1	
5504 117 5538 025	1 7 8 6	211.01	1	C
5626 245	2 6	5219 875	2	8
627 859	2 6	238 712	1	8
5646 822	1 7	5239 137 5260 561	1	6
5649 304	1 7	5200 561 5297 <b>4</b> 07	1 1	5
5657 667	1 7	5300 152	1	8 7
5668 593	1 7	80° 616	1	8
5671 071	5 9	5420 471	2	9
567 047	5 J	5132 758	1	6
5689 694	1 8	5460 572	2	Š
5698 746	3 8	51/70 98	1	4
5700 102	2 7	54/1 111	1	8
5703 797	2 8	5477 901	2	
5707 204	2 8	482 078	1	8
5716 671	3 7	<b>5488 374</b>	1	4
5727 873	б 9	5190 867	1	8
5731 <del>4</del> 87	5 9	5490 905	1	7
5737 288	5 9	5504 117	1	8
5 43 645	4 9	5 5 1 4 7 5 3	1	
5860 C75	2 7 2 7	5517 091	1	1
5867 785		538 0	1	6
Ob	—88 dGN	5538 526	1	5 6
		5605 17) 5626 245	1 1	C
			2	ť
No 265	(Gr 5210a	5616 322	1	6
T	LAT + 12	5618 796	1	7
		5667 687	1	Ċ
,	Long 111	5602 374	1	ŗ
CLASS	dIII dVI 1—i	5608 593	1	•
7)	004 4797 00	5671 071	2	J
Date-1	.904 April 27 28	56 2 047	2	9
W l gtl	N mb f M		1	Ն
	Ob t Wi	g 5680 694	1	7
4965 107	2 7	5698 746	1	8
5009 829	2 6	5700 402	1	7
5086 645	1 7	5703 797	1	7
5043 761	1 7	5707 201	1	7
5045 582	1 7	5712 996	1	5
5066 74	7	5714 380	1	7
5087 289	1 8	<b>571</b> 6 <b>671</b>	1	7
			3	

W l gth N mb f M d	W 1 gth	Numb f Ob t n	M n Wlg
5719 795 1 5	<b>5144</b> 081	1	8
5 0 666 1 7	5144 847	1	G
5 27 8 3 3 7	5147 652	10	7
5731 437 2 9 5787 288 2 9	5119 013	5	• 5
5787 288 2 9 5789 698 1 8	5149 964	1	8
6740 195 1 8	5150 863	9	6
5748 182 1 8	5156 828	4	8
5748 645 1	5157 168	1	9
5762 479 1 7	5160 551	5	
5766 550 1 7	5161 858		8
57 4 250 1 7 5866 675 1 5	5164 007	1	8
5868 675 1 5 5867 785 1 5		4	8
	5210 059 5911 015	1	7
Ob —88 dGN	5211 015	1	6
	5219 875	9	7
	5225 695	1	4
	5288 42	6	7
	5239 137	6	6
No 266 (Gr 5209a)	5239 992	1	5
110 200 (di 5209a)	5260 561	1	5
Lat - 13	5282 578	2	4
10	5295 955	2	4
Long 105	5297 407	2	7
	5800 152	3	7
CLASS— $\mathbf{I} \nabla a \ \mathbf{I} \nabla b \ \mathbf{I} \nabla e \ \mathbf{I} \mathbf{I} \mathbf{I} b$	5351 261	2	6
Date-1904 April 21 22 23 24 25 26 27 28	5866 616	4	7
29 30	5384 833	1	6
Yh	5896 985	1	7
With Nmbf M Obt Wdnig	5426 474	10	9
4862 029 4 4	5482 758	6	6
4864 919 4 4	5460 572	10	8
4875 671 3 5	5470 298	2	6
4965 107 7 6	5471 411	2	6
5009 829 9 6	5477 901	4	7
5018 479 1 4 5086 645 1 7	5482 078	8	6
F0.40 P0.5	5488 374	1	4
045 582 7 4	<b>549</b> 0 86	8	7
50 3 056 1 6	5490 905	6	6
5062 066 7	5504 117	2	8
50 <b>62 28</b> 5 <b>8</b> 7	5514 753	1	5
5066 174 8 6	5517 084	1	4
5087 239 5 7 5134 505	<b>5538</b> 0 <b>25</b>	4	6
519.4 GOV ~	5538 5 <b>26</b>	8	4
5184 697 5 5 5136 270 2 2	5605 171	8	6
5186 625	5626 245	8	7
5188 693	5626 468	1	4
5188 890 1 <b>8</b>	5627 859	9	6
5189 087 1 8	5628 867	1	4
5140 886 5 5 5140 558 5 7	5646 822	2	6
5141 906	5648 796	1	7
5141 386 4 6 5148 901 7 5	5649 804	1	6
. 0	5657 677	1	6

W v l gth	N mh f Ob t n	) n Wdng	No 291 (Gr 5240)
5662 374	1	6	$L_{AT} - 22$
5608 598	1	6	
5671 071	9	8	Long 5
5672 047	9	7	$ ext{Class}$ — $ ext{IV}c$ $ ext{III}b$ $ ext{I}$
5637 068	4	5	
5689 694	5	7	Date-1904 May 29 31 June 1
5698 746	6	7	W 1 gth Nmb f M
5700 40 <b>3</b>	2	7	on a war &
5703 797	4	7	4965 107 1 6 5009 829 2 6
570 204	5	7	5045 582 8 6
571 996	1	5	5066 174 8 7
5714 380	1	5	5184 697 2
5716 671	6	6	5136 270 2
5719 795	1	5	5147 652 8 6
5720 666	1	7	5150 868 2 6
5727 271	2	5	5219 875 2 5 5426 474 2 7
5727 873	10	o o	5426 474 2 7 5480 572 1 8
5781 487	10	9	5482 078 2 5
5787 288	10	9	5627 859 2 5
5789 698	4	7	5671 071 2 5
5740 195	4	7	672 0 1/7 2 5
5748 182			5716 71 1 6
5718 045	3 7	9	5727 878 G
5762 479		8	5781 487 2 G 5787 288 2 6
5702 479 5700 550	1	7	
5774 250	_	7	Ob ——SS dGN
5866 G 5	1	7	
	2	5	
5807 785	2	5	
5900 260	1	4	
5908 748	1	8	No 297 (Gr 5250)
5918 685	1	Ţ.	·
5922 884	1	8	LAT +19
5941 845	1	10	Long 229
5966 055	1	6	
5978 768	1	6	CLASS—I IIIb IIa IVb
6039 958	1	8	Date—1904 June 13
6057 110	1	6	
6064 858	1	6	W lngth N mb f M Ob t Wd g
6081 665	1	10	5009 829 1 8
6085 4 0	1	6	5045 582 1 2
6090 429	1	4	5066 174 1 2
6091 895	1	4	5143 901 1 8
6111 8 2	1	10	5147 652 1 4
6119 740	1	6	5150 363 1 4, 5219 875 1
612° 485	1	6	5219 875 1 5426 474 1
619 580	1	4	671 071 1
6199 898	1	6	567 047 1
6210 895	1	8	5727 878 1
6252 048	1	6	5781 487
O1 -	a		5787 288 1
Obse	-sb dg:	N	Ob v —88

No 299	9 (Gr 52	<b>53</b> a)	No 306 (Gr 526	<b>2</b> a )
3	LAT + 12		$L_{AT} + 16$	
I	Long 121		Long 263	
Or ass—I	IVb IVe IIa	ı IVa	CLASS—III IVb IVa	I
Date-19	004 June 14 2	1 22	Date—1904 July 5 6 7	8
W 1 tł	N mb f Ob t	M Wdg	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	M Wdg
4965 107	2		4965 107 3	8
009 329	8	6	5009 829 1	
5045 582	2		5048 761 8	
5066 171 5134 697	2 1		5045 582 4	8
5186 270	1		5062 285 1	_
5148 901	1	6	5086 174 4	8
5147 C52	8	6	5148 901 4 5147 652 4	8
5150 368	8	6	5149 964 8	8 8
<b>5160 419</b>	1	6	5150 863 1	J
5219 875	1	4	5219 875 2	9
5426 474	3	6	5288 742 I	8
5480 572	2		5239 187	8
5490 367	1		5260 561 1	8
5627 859 5651 051	3 3	4	5424 761 1	6
5071 071 507 047	ა 3		5426 474 8	9
5 27 373	3	6	5482 53 2	7
5781 187	8	6	54\0 72 3 5477 901 8	8
5787 288	3	6	5477 001 8 5482 078 3	8
Ор	88 1GN	ī	5490 807 2	9 9
O.D	66 (41	•	5490 005 2	8
			5627 850 4	9
No. 201	F (O. FC		5671 0 1 2	9
NO 30:	5 (Gr 52	(59)	5672 047 2	9
I	лат — 22		5727873 2	9
			5731 43 8	9
	Long 305		5782 522 2	J
	LASS—I III		5787 288 8 Ob —G N	9
Date	-1904 July 7	7		
W 1 g h	N mab f Ob t	W d g		
4965 107 5045 582	1	8 8	No 308 (Gr 526	4a )
5066 174	1	8 8		F-00 )
5143 901	ı	8	$L_{AT} + 13$	
5147 652	1	8	Long 151	
5149 964	1	8		
5482 078	1	8 <sup>%</sup>	Olass—IIa IIIa I	
5490 367	1	9	Date-1904 July 11 12 1	3 15
5490 )05	1	7	W loth Nmb f	м
5627 859	1	8		Wdn g
5671 071	1	9	4965 107 4	7
5672 047	1	9	5009 829 8	7
5 27 873 731 187	1	9	5048 761 1	6
731 187 5732 522	1 1	9 9	5045 582 4	7
5732 522 573 288	1	9	5066 174 4	7
	)bG N	v	5085 341 1	8
·	,		5087 289 1	6

W l gth	N mb t Ob t	M W d	No 314	(Gr 5	<b>269</b> <i>a</i> )
5108 563 5113 298	1 1	6 5	Lat	<b>—</b> 19	
5118 617	1	5			
5 43 901	4	7	Lon	G 61	
5147 652	4	7	-		
<b>5150 368</b> <b>5157 163</b>	4 1	7 6	Class-	$\mathbf{IV}d \mathbf{IV}$	b
5160 554	1	6	7) de 1004 7	OA 6	9 94 26
5163 074	1	6	Date = 1904 J	uvy 20 2	10 24 70
5219 875	4	9		nb f	M
5238 742	8	7 6	,, , em Of	b t	Wdg
5289 13 <b>7</b> 5243 526	ዓ 2	7	4965 107	8	9
5866 616	í		5009 829	4	8
5126 474	4	9	5013 475	1	5
5182 753	2	7	5013 <b>761</b>	2	8
5460 5 2	1	6	5045 582	4	8
5461 762	3 3	9 7	058 056	1	9
5477 901 5482 078	3 1	7	5058 170	1	8
5490 367	3	9	5061 882	1	6
5403 709	1	7	<b>5</b> 06 <b>2</b> 95	1	8
5504 117	1		5063 3 5	1	ь
5512 013	1	8	50°1 14	1	5
5 12 711	1	7 8	5066 078	1	8
5580 9 17 5537 928	1	8	50°6 174	4.	8
5627 859	ī	8	5070 165	1	6
5071 071	4	8	5085 311		8
5672 047	4	8	5085 CG8	1	8
5698 746	2	8	5087 230	3	8
5727 873	4	9	5101 790	1	7
5731 487 5732 5 2	4 3	8 8	5131 505		
5737 288	4	)	5134 697	2	7
80)518	3	8	5185 8 5	1	5
<b>591</b> 6 <b>4</b> 75	1	G	5186 835	1	5
5968 055	2	7	5136 969	1	5
5978 768 6039 953	$egin{array}{c} 2 \\ 2 \end{array}$	8 8	<b>5189</b> 0 <b>37</b>	1	
COG4 853	2	8	5189 189	1	5
6081 6C	1	8	5139 817	1	7
6111 872	1	ð	143 901	_	7
6119740	8	7	5144 031	1	6
61 6 435	3	8	5117 6	4	8
C135 80 6150 360	1 3	6 8	148 851	1	7 9
0154 438	2	7	5150 30 3	3 1	5
619 ) 898	2	9	51 0 25 51 0 798	2	8
6210 8 )5	2	8	51 0 736 515( 823	1	° (
6243 320	2	10	5157 168	1	(
6252 048	1	7	5157 103 5157 376	1	6
6269 080	1	7	5167 676 5160 <b>4</b> 19	1	ŕ
627 1 870 6293 170	2 1	9 7	5161 00C	1	6
6296 582	1	7	5103 000 5103 074	1	5
6808 985	î	7	5103 200	1	•
63060 1	2	9	168 585	1	5
6330 316	2	8	51,14 216	î	8
6868 090	1	7	5203 118	1	6
6366 707	1	C	5 12 398	1	7
6455 820	2 2	8 8	5219 875	4	y
0499 1 <b>°</b> 8 6573 030	2 2	9	5288 742	3	7
<b>657</b> 1 468	2	8	5239 137	3	6
		•	5253 205	1	7
0	b —G N		0,000,000	4	•
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W 1 th	N mb f Ob t	Мп Wdng	No 319A (Gr 5278a)
5 55 978	1	5	$L_{AT} + 14$
5260 561	1	8	Long 309
5 72 171	1	7	
5320 220 5338 517	1 1	7 7	CLASS— $\Pi b \ \Pi \Pi a$
53 1 261	ī	• 8	Date -1904 July 28
5356 270	1	7	N mh f M m
5866 616	2	8	W lngth Ob t Wd g
5426 474	4	9	50 <b>6</b> 6 078 1
543 753 5460 57	8 3	7 5	5068 171 1
5461 76	4	9	5140 5 8 1
5477 901	2	7	5143 901 1 147 652 1
5182 078	2	7	5150 868
5490 367	4	9	5219 875 1 8
5490 905	1	7	5288 742 1 7
5512 013 5580 997	2	9	5289 187 1 7 5426 474 1 )
5605 171	ĵ	8 9	5426 474 1 ) 5460 572 1 8
5626 245	i	7	5477 901 1 6
5 <b>6</b> 27 859	4	9	482 078 1 7
5062 874	1	7	5490 807 1 8
5668 598	1	8	5530 9.77 1 7 5627 859 1 7
5671 071	4	9	5627 859 1 7 671 07 1 7
5672 047 5698 746	4 2	9	5672 047 1 7
5702 876	1	8 8	5727 878 1 8
5 08 797	ī	7	5781 487 1 8
5707 04	1	7	5737 288 1 8
5712 996	1	8	Op —G M
5 16 671	2	8	
5717 728	1	8	
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5 20 666 5727 878	} 4	9	No 319B (Gr 5278b)
5 20 666 5727 878 5781 437	] 4 4	9	,
5727 878	4		No 319B (Gr 5278b)  Lat + 14
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5727 878 5781 437 5737 88 73J 698 5740 195	4 4 3 1 1	9 9 9 9	Lat + 14 Long 298
5727 878 5781 437 5737 88 73J 698 5740 195 5 48 182	4 4 3 1 1	9 9 9 9	LAT + 14 LONG 298 CLASS—IIb IIIa
5727 878 5781 437 5737 88 73J 698 5740 195 5 48 182 5880 490	4 4 3 1 1	9 9 9 9 9 6	Lat + 14 Long 298
5727 878 5781 437 5737 88 73J 698 5740 195 5 48 182	4 4 3 1 1 8	9 9 9 9 9 6 8	Lat + 14 Long 298 Class—IIb II1a Date—1904 July 28
5727 878 5781 437 5737 88 73J 698 5740 195 5 48 182 5880 490 5890 18	4 4 3 1 1	9 9 9 9 9 6	Lat + 14 Long 298 Class—IIb IIIa Date—1904 July 28
5727 878 5731 437 5737 88 73.3 698 5740 195 5 48 182 5880 490 5890 18 5903 18 5922 834 5988 0	4 4 3 1 1 8 1 1 1	9 9 9 9 9 6 8 7 8	LAT + 14  LONG 298  CLASS—IIb II1a  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1
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5727 878 5731 437 5737 88 73.1 698 5740 195 5 43 182 5880 490 5899 18 5903 18 5922 334 5938 0 5941 985 5944 945	4 4 3 1 8 1 1 1 1	9 9 9 9 6 8 7 8 8	LAT + 14  LONG 298  CLASS—TIb II1a  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1 5066 174 1 5140 558 1
5727 878 5731 437 5737 88 73.1 698 5740 195 5 48 182 5880 490 5890 18 5903 18 5922 334 5988 0 5941 985 5944 945 59 8 886	4 4 3 1 8 1 1 1 1 1	9 9 9 9 6 8 7 8 7 6 <b>7</b>	LAT + 14  LONG 298  CLASS—TIb II1a  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1 5066 174 1 5140 558 1 5143 901 1
5727 878 5731 437 5737 88 73.1 698 5740 195 5 43 182 5880 490 5899 18 5903 18 5922 334 5938 0 5941 985 5944 945	4 4 3 1 8 1 1 1 1	9 9 9 9 9 6 8 7 8 7 6	LAT + 14  LONG 298  CLASS—IIb IIIa  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1 5066 174 1 5140 553 1 5143 901 1 5147 652 1 5150 368 1
5727 878 5731 437 5737 88 73.1 698 5740 195 5 48 182 5880 490 5890 18 5903 18 5922 834 5988 0 5941 985 5944 945 59 8 886 5908 055	4 4 3 1 8 1 1 1 1 1	9 9 9 9 6 8 7 8 7 6 <b>7</b>	LAT + 14  LONG 298  CLASS—IIb II1a  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1 5066 174 1 5140 553 1 5143 901 1 5147 652 1 5150 368 1 5219 875 1 8
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5727 878 5731 437 5737 88 73.1 698 5740 195 5 48 182 5880 490 5890 18 5903 18 5922 334 5938 0 5941 985 5944 945 59 3 886 5966 055 5978 768 5988 785 5989 510 5999 436 5099 920 6009 580	4 4 3 1 1 8 1 1 1 1 1 1 1 1 1	9999687887676765676	LAT + 14  LONG 298  CLASS—IIb II1a  Date—1904 July 28  W 1 gth N mb f M n g  5066 078 1 5066 174 1 5140 553 1 5143 901 1 5147 652 1 5150 368 1 5219 875 1 8 5288 742 1 7 5289 187 1 7 5426 474 1 9 5460 572 1 8 5477 901 1 6
5727 878 5731 437 5737 88 73J 698 5740 195 5 48 182 5880 490 5899 18 5903 18 5922 334 5988 0 5941 985 5944 945 59 8 886 5968 055 5978 768 5988 785 5989 510 5999 920	4 4 3 1 1 8 1 1 1 1 1 1 1 1	9999687887676765	LAT + 14  LONG 298  CLASS—IIb IIIa  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1 5086 174 1 5140 553 I 5148 901 1 5147 652 1 5150 363 1 5219 875 1 8 5228 742 1 7 5228 137 1 7 5428 474 1 9 5460 572 1 8 5477 901 1 6 5482 078 1 6
5727 878 5731 437 5737 88 73.1 698 5740 195 5 48 182 5880 490 5890 18 5903 18 5902 834 5988 0 5941 985 5944 945 59 8 886 5968 055 5978 768 5988 785 5989 510 5999 436 5099 920 6009 580 6089 9 8	4 4 3 1 1 8 1 1 1 1 1 1 1 1 1 1	9999687887676765676	LAT + 14  LONG 298  CLASS—IIb IIIa  Date—1904 July 28  W   gth   N mb   f   M n   g  5066 078   1
5727 878 5737 88 73J 698 5740 195 5 48 182 5880 490 5890 18 5903 18 5902 334 5938 0 5941 985 5944 945 59 8 386 5968 055 5978 768 5989 510 5999 436 5099 920 6009 580 6089 9 3 6063 080 6081 665	4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 9 9 6 8 7 6 7 6 7 6 9 8	LAT + 14  LONG 298  CLASS—IIb IIIa  Date—1904 July 28  W   gth   N mb   f   M n   Ob   t   W d   g  5066 078   1   5066 174   1   5140 553   1   5147 652   1   5150 363   1   5219 875   1   8   5228 742   1   7   5289 187   1   7   5428 474   1   9   5460 572   1   8   5477 901   1   6   5482 078   1   6   5490 867   1   8   5530 997   1   7
5727 878 5737 88 73J 698 5740 195 5 48 182 5880 490 5890 18 5903 18 5902 834 5938 0 5941 985 5944 945 59 8 886 5968 055 5978 768 5988 785 5989 510 5999 920 6009 580 6039 9 8 6058 912 6063 080 6081 665 6111 872	4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1	999968788767676587698588	LAT + 14  LONG 298  CLASS—IIb II1a  Date—1904 July 28  W   gth   N mb   f   M n   g    5066 078   1    5066 174   1    5140 553   1    5143 901   1    5147 652   1    5150 363   1    5219 875   1   8    5228 742   1   7    5239 187   1   7    5426 474   1   9    5460 572   1   8    5477 901   1   6    5482 078   1   6    5490 867   1   8    5580 997   1   7
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5727 878 5737 88 73J 698 5740 195 5 48 182 5880 490 5899 18 5903 18 5902 334 5938 0 5941 985 5944 945 59 3 885 5978 768 5989 510 5999 436 5999 436 5099 920 6009 580 6009 580 6009 580 6009 580 6009 580 6009 580 6009 580 601 665 6111 872 6126 485 6248 820	4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 9 9 9 9 6 8 7 6 7 6 7 6 7 6 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LAT + 14  LONG 298  CLASS—TIb IIIa  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1 5086 174 1 5140 558 1 5143 901 1 5147 652 1 5150 368 1 5219 875 1 8 5288 742 1 7 5288 742 1 7 5288 742 1 7 5426 474 1 9 5460 572 1 8 5477 901 1 6 5482 078 1 6 5490 867 1 8 5580 997 1 7 5627 859 1 7 5627 859 1 7 5672 047 1 7 5672 047 1 7
5727 878 5737 88 73J 698 5740 195 5 43 182 5880 490 5899 18 5903 18 5902 334 5938 0 5941 985 5944 945 59 3 886 5906 055 5978 768 5988 785 5989 510 5999 436 5099 920 6009 580 6089 9 8 6083 980 6081 665 6111 872 6126 485 6248 920 6274 870	4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 9 9 9 9 6 8 7 6 7 6 7 6 7 6 9 8 8 8 8 8 8 9 9 9 9 9 9 9 9 9 8 8 8 8 8 8 8 8 9 9 9 9 9 9 8	LAT + 14  LONG 298  CLASS—IIb IIIa  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1 5086 174 1 5140 553 1 5143 901 1 5147 652 1 5150 368 1 5219 875 1 8 5288 742 1 7 5288 742 1 7 5288 742 1 7 5428 474 1 9 5460 572 1 8 5477 901 1 6 5482 078 1 6 5490 867 1 8 5580 997 1 7 5627 859 1 7 5672 047 1 7 5672 047 1 7 5672 7 878 1 8
5727 878 5737 88 73J 698 5740 195 5 48 182 5880 490 5899 18 5903 18 5902 334 5938 0 5941 985 5944 945 59 3 885 5978 768 5989 510 5999 436 5999 436 5099 920 6009 580 6009 580 6009 580 6009 580 6009 580 6009 580 6009 580 601 665 6111 872 6126 485 6248 820	4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 9 9 9 9 6 8 7 6 7 6 7 6 7 6 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	LAT + 14  LONG 298  CLASS—IIb IIIa  Date—1904 July 28  W 1 gth N mb f M n Ob t Wd g  5066 078 1 5086 174 1 5140 553 1 5143 901 1 5147 652 1 5150 368 1 5219 875 1 8 5288 742 1 7 5288 742 1 7 5288 742 1 7 5428 474 1 9 5460 572 1 8 5477 901 1 6 5482 078 1 6 5490 867 1 8 5580 997 1 7 5627 859 1 7 5672 047 1 7 5672 047 1 7

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No 321 (Gr 5281)	<b>W</b> 1 th	N mb f M Ob t Wd g
Lat17	150 863	2
Long 295	5219 875	2 8
Olass—I II $a$ III $a$ IV $b$	5238 742 5289 137	1 7 1 6
	5304 855	1 6
Date -1904 July 30	5320 220	1 5
W l gtl N mb f M Ob t W d n	5.126 474	2 9
4965 107 1 7	515 640	1 6
5045 582 1 7	<b>5460 57</b>	2 8 1 6
5066 078 1 7	5477 901 5182 078	1 6 1 7
066 174 1 7	5490 367	2 8
5130 769 1 6	5193 709	1
5148 901 1 7	5530 997	1 7
147 652 1 8 5150 368 1 8	<b>5547 215</b>	1 6
5150 368 1 8 5160 419 1 7	627 850	2 8
5219 875 1 8	508 598	1 7
32 227 1 7	5071 071 5672 017	2 8 2 8
5426 474 1 9	5072 017 5098 716	1 6
4 610 1 6	5716 671	1 7
5460 572 1 8	5727 878	2 9
5177 901 1 6	5731 <del>4</del> 37	2 9
5492 0 8 1 7 5490 867 1 8	737 288	<b>2</b>
5 30 397 1 8	<b>5739 698</b>	1 7
5627 859 1 7	5740 195 5748 110	1 7 2 8
5671 071 1 7	5748 110 57( 2 479	1 6
5072 047 1 7		)b —G N
5727 873 1 9	·	, р — G И
781 437 1 9		
5737 288 1 9		
5730 C98 1 8 5740 195 1 8		
Op —G M	No 328	B (Gr 5286)
	1	Lat 13
No 326 (Gr 5285a)		Long 110
LAT + 13	Class—II	a IVb IVa IVe I
Lo g 156	Date-1904	August 9 10 11 13
(TASS—IVa IVb IIIa IIb	W 1 gtl	Nmbf M Obts Wig
Date-1904 August 6 7	4965 107	1 7
	5009 829	6
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4965 107 2 6	5 5045 582 50 3 05(	4 7 1 6
5045 582 2 6	5002 286	1 6 1 7
5058 056 1 6	06° 078	4
5066 078 2 6	508u 174	<u>.</u> 7
50 6 174 2 6	085 668	1 8
5085 841 1 4	5087 239	2 8
5087 289 1 6	5184 505	1 6
5148 901 1 6	5199 817	1 6
5147 652 2 6	5143 901	4 7

W l gth	N mb f M Ob t W d m	W lngth Nmb f M n Ob t Wd	g
5147 652	4. 8	5066 174 4 8	
<b>515</b> 0 8 <b>68</b>	4 7	5087 289 4 7	
5160 419	1 7	5139 817 1 7	
5168 074	1 6	5143 901 4 8	
5219 875	4 8	5147 652 4 8	
<i>52</i> 88 74	3 7	5150 736 4 8	
5239 137	3 7	5160 419 1 8	
5243 526	1 8	5219 875 4 8	
<b>526</b> 0 561	3 7	<b>5288</b> 742 4 7	
5280 540	1 6	5289 187 4 7	
5282 576	1 7	5260 561 1 7	
5320 220	1 7	5426 474 4 7	
5426 4 4	4 8	5460 572 4 8	
5482 753	1 7	5182 078 2 7	
4 7 640	1 6	<b>54</b> 90 <b>8</b> 67 <b>3</b> 8	
5460 572	5 10	5498 709 8 7	
5477 901	2 7	5530 997 1 7	
5482 078 5490 367	3 7	5627 859 4 8	
5493 709	4 8 8 7	567 071 4 7	
5530 997	8 7 1 7	5672 047 4 7	
5547 215	1 7	5727 873 4 8	
5603 93	1 6	5731 437 4 8	
5 25 541	1 7	5737 288 4 8	
5627 859	4. 8	5762 635 2 7	
5671 071	4 7	Ob — GN	
5672 047	4 7		
5689 694	1 8		
5716 671	1 7		
5727 878	4 8		
5781 <del>4</del> 87	4 8		
5737 288	4 8		
5762 685	<b>4</b> 8		
ОЪ	—G N	No 338 (Gr 5295a)	
		Lat + 13 Long 318	
		Class—I IVa	
No 333	(Gr 5291a)	Date—1904 August 23	
L	AT -18	W 1 gth Numb f M n	g
<b>T</b>	50	5009 829	
1.	iong 59	5045 582	
Ст.да	s – $\mathbf{I}\nabla a$ $\mathbf{I}\nabla b$	5184 697	
CDED	S I T W I T T D	5136 270 1	
Date-1904	August 14 15 16 17	5147 652	
		5150 368	
W l gth	N mbf M n Obt Wdg	5426 474	
4965 107	4 7	5671 071 1	
5009 829	4 7	5672 047	
5045 82	4 7	5727 873 1	
5053 056	2 7	5781 487 <b>1</b>	
5062 285	 2 7	5737 288 1	
2000 0E0	•		

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<u>-88</u>

5066 078

No 339	9 (Gr 5	<b>296</b> )	W l gth N mb f M Ob t Wd g
L	<b>мт</b> — 18		5494 679 1 5
	LONG 279		5504 117 1 8
			5512018 1 6 $5512741$ 1 6
OLA	ss—V IIIb		5512.741 1 6 $5514.753$ 1 5
Date-1904	August 24 28	3 29 30	5516 950
₩ l gth	N mb f	M n	5517 034 1 5 5530 997 1 7
	Ob t	Wdg	537 928 1 6
4965 107 5009 829	3 4	7 5	5 38 02 1 6
5013 479	1	4	$5547\ 215$ 1 6 $5626\ 24$ 1 5
5016 220	1	3	5C2 859 4 8
5048 761	2	7	5628 867 1
504 582 50 3 0 6	4. 2	7 8	5662 874 1 7 56 1 071 3 8
50C1 882	2	6	56 1 071 3 8 672 0 1⁄7 3 7
5062 285	1	6	5089 694 1 9
5063 855 066 078	1 2	8	5098716 1 7
5086 174	4	7	5700 508 1 6 5707 204 1 7
5085 668	2	7	5712 9 ) 8 1 7
5087 239	8	8	571° (71 1 7
5134 05 5134 697	2 8	5 G	720 6( 6 1 7 5727 8 3 4 3
5134 849	i	6	5727 8 3 4 3 5 31 437 4
513 355	1	C	37 88 4 4
513C 270	1 2	8 C	573 7 698 1 7
5139 087 5139 189	2	6	5740 195 1 7 713 182 1 8
5139 817	2	в	702 635
5143 764	1	(	5774 2 0 1
5148 901 5147 652	2 4	( 8	5/76 J58 1 9
5150 363	4	6	5860 C75 1 580 7 785 1
51 6 823	1	7	58 19 518 1
5157 168	1 2	5 7	01 —88 1GN
51(0138 5160419	2	8	
5163 074	2	7	
5219 875	4	7	
52 4 471 5225 198	1 1	3 7	No 343 (Gr 5298a)
5225 695	ī	3	Т
5238 712	2	8	Lar — 1
5289 137 5200 61	2 2	7 7	Long 256
5280 158	1	(	CLASS-IIIb IV/ IVa IV/
5282 76	2	7	
5881. 641	2	7	Date—1904 A gust 27
5838 517 5850 270	1 1	8 7	Wight Nif M Obt Wig
5866 616	ī	7	4965 10 1
542° 474	1	7	009 929 1 3
5432 758	2 1	7 5	5045 58 1 2
438 259 5438 507	1	4	50((174) 1 2
5457 640	1	5	5085668 1 5134 697 1 4
5457 701	1	5	5136 70 1 4
5460 572 5470 802	4 1	9 8	147 652 1 4
5470 883	1	8	521985 1 5 5428474 4
5474 436	1	6	5426 474 5°27 850 1 4
4/77 901	2	7	5727 873 1 3
5482 078 5490 307	8 3	8 8	5731 137 1 3
5490 905	1	7	79 288 1 3
5493 709	4	7	ОЪ —5 8
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No 34	4 (Gr 53	8 <b>00</b> a)	No 354 (Gr 5313a)
]	Lat 19		LAT -20
3	Long 229		Long 343
	IIIb IVe IV	2 T	CLASS-I IIIb IVb IVa
			Date—1904 Sept 20 22 24
Date -190	4 August 28	Sept 1	37
W 1 th	N mb f Ob t	M n Wdg	W l gth N mb f M Ob t Wd g
49°5 107	_	•	4862 0 9 1
5009 829	1 2	7 6	4985 107 2 8 5009 829 3 8
5048 61	1	7	5028 872 1 5
5045 92	2	6	5045 582 3 5
5058 056	2	6	501.8 174
0 1882	1	6	5000 174 3 8 5087 39 1
5062 285	1	6	5113 298 1
5066 078	1	8	5134 697 8 5136 270 2
5006 174 5070 16	2	6	5138 270 2 8 5138 690 1 3
5085 868	1 1	2	5143 901 2 4
5 87 239	1	7 8	5147 652 8 6
5134 505	ī	5	5150 868 8 8 219 875 3 8
5134 697		5	52 4 471 1 7
5185 855	1	8	5225 695 1 5
5186 270	1	2	5288 742 1 7
5139 037	1	6	5289 187 1 7 51 C 474 3 7
5189 189	1	6	432 7 8 1 4
5139 817	1	в	54G0 572 2 7
143 901 <b>5147</b> 6 2	2	5	5477 901 1 7 548 078 2 6
5150 868	2	7	5190 867 2 6 5190 867 2 7
5160 188	1	ር 7	5490 905 1 3
5160 419	1	7	5627 859 3 5
5168 071	1	7	5671 071 3 6 672 0 <u>¥</u> 7 3 6
5 <b>2</b> 19 8 <b>75</b>	2	7	5727 878 <b>3</b> 7
5 88 742	1	8	5781 487 8 7
289 187	1	7	5737 288 8 7 5743 645 1 5
5200 561 5 8 576	1	7	01
5881 641	1 1	7	Ob —88 dGN
5866 616	1	7 7	
5426 47 h	2	7	No 356 (Gr 5317a)
5482 758	1	7	Lat 23
5460 5 2	1	9	
5477 901	1	7	Lox 327
548 078	1	8	$\mathbf{C}_{I}$ ass— $\mathbf{I}$ $\mathbf{I} \mathbf{I} c$ $\mathbf{I} \mathbf{\nabla} b$
54 0 367	2	6	Date-1904 Sept 23 25
5490 905 5493 709	7	5	W lngth Numb f M
56 78 9	1 2	7	Ob t Wd mg
5671 071	2	7 7	4875 671 1 6 4876 060 1 7
5672 047	2	6	4876 060 1 7 4887 187 1 6
67 7873	2	6	4887 881 1 6
5 31 487	2	8	1965 107 2 8
5787 288	2	8	5009 829 2 8 5045 582 2
5743 645	1	4	5045 582 2 8 5053 056 1 7
5762 685	1	8	5066 174 2 8
5766 5 0	1	4	5087 239 1 8
Ob rv	—38 dGN		5118 298 1 7 5118 617 1 7
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W i gtl	N b f Ob t V	M Vdning	No 360	(Gr 5	5318)
5134 697 5189 817	1 2	7 7	L	т — 14	
5143 901 5147 652	2 2	7 8	r.	045	
5150 808	1	8	TiC	ng 245	
5219 875	2	8	CLAS	ss—I IIIb	
52 4 471 5238 4	2 2	7			0.0
5289 187	2	7 7	Date—	1904 Sept	26
5260 561	2	7	W l gth	N mb f	м_
5282 576 5426 474	1 2	6		Ob t	Wdng
5432 58	2	9 7	5009 52	1	4.
5460 572	2	8	5045 582 5066 17 L	1	4
5477 901 5482 078	1	7	085 668	1	4 <u>.</u> 4.
5490 307	1 2	7 8	5134 697	1	8
50 6 245	1	5	5136 270	ī	3
56 7 859	2	8	5143 901	1	5
5( 28 807 671 071	1 2	7	5147 652	1	5
567 04 <b>7</b>	Z	7 7	5 19 875	1	
5727 8 3	2	9	4 6 174	1	
5 31 437	2	9	5071 071	1	
5737 48 739 (98	2 1	9	5072 047	1	
5740 195	1	7 7	57 7873 57314 7	1	
5748 182	2	8	787 288	1 1	
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6111 87 1 5	5113 617
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5671 071	4	7	6290 427	1	7
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4863 833	1	(	4862 788	1	5
4864 919	1	5	4864 919 4965 107	1	₹
48 0 32 <b>2</b> 4985 10	1	7	5000 0	-	(
5009 8 J	4 r	5	5009 829	1 2	
5043 7(1	1	6 r	504 582	2	ს 6
5045 582	5	, 5	5053 056	1	U
5066 174	1	G	5006 174	1	(
5087 289	2	-	5087 239	1	
148 901	8	4	5104 204	1	
5147 652	5	8	5104 614	1	
5150 368	4	5	5113 298	1	
5219 875	5	G	5113 617	1	
5426 474 5 160 572	5	8	5143 901 5147 65	2	5
5490 367	3 2		51 <b>4</b> 7 G5 5150 868	9	7
56 7 859	3	ŗ	5219 875	2 2	6
5671 071	5	7	54 6 474	~	( 8
5672 047	-	6	5460 572	2	5
5 27 878	5	8	548 078	2	5
5781 437	5	8	5627 859	2	5
<b>5737</b> 88	5	8	5 <b>1</b> 71 071	2	7
5743 645	2	6	567 O <b>4</b> 7		Ġ
6097 505	1	7	57 7 878		8
6111 872	1	7	5781 497	2	8
6119 740	1	7	5737 288	2	7
6126 485 6135 580	1	7	5743 645	1	7
0400 000	1	8	ОЪ	<b>v</b> s 88 d	G N

## 90 No 383 (Gr 5351a) No 390 (Gr 5356a) LAT -16 LAT - 22 Long 60 CLASS-IVa IVb IVc I Long 300 Date- 1904 Nov 4 5 6 7 9 CLASS-Ha IIIa IIIb IVa I N mb Ob t M l gth Wd g 4862 029 1 6 Date-1904 Nov 13 14 15 16 17 18 4868 883 3 N mb 4864 919 1 1 gth в Wdnung 4868 451 1 5 4717 756 1 5 4870 99 1 5 4820 98 1 5 4875 671 1 5 4827 687 1 7 4876 060 1 5 4827 804 2 7 4905 107 2 7 4851 689 2 7 4859 316 5009 829 1 7 6 4862 029 2 5 5045 582 5 7 4862 788 1 4 5066 174 3 4868 888 1 4 5087 289 2 7 4864 919 1 5 5143 901 4870 823 1 6 5147 652 5 7 4901 152 1 6 4905 310 5150 368 1 5 7 5 4921 968 1 5219 875 6 5 4965 107 6 6 5426 474 5 5001 165 2 6 5482 078 1 5009 829 6 7 5627 859 8 5016 840 2 5 5671 071 5025 027 4 1 6 5049 761 5672 047 1 5 4 5045 582 6 6 5727 878 5 5058 056 4 6 5781 487 5 5066 174 6 б 5737 288 5 5087 104 1 в 5899 518 1 5087 289 8 8 6 5092 058 5988 270 4 1 7 8 5108 563 2 6068 080 6 1 5 5184 697 2 6064 858 1 6 5186 270 2 6081 665 1 7 5149 901 6 в 6119 740 5147 652 1 7 6 7 5150 868 6126 485 1 6 7 7 5152 361 1 6199 898 8 1 8 5156 828 2 в 6216 567 1 7 5158 152 2 6 6243 320 1 10 5219 875 в 7 6252 048 1 9 5225 695 2 6 6258 822 1 5260 561 6 8 6 5282 5 6 680° 024 1 2 6 6 5331 641 6830 816 2 5 1 8 5426 474 в 8 6868 090 1 8 5432 753 2 5

5460 572

5477 901

5482 078

5490 867

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7

в

6

в

6455 820

6499 168

Ob

1

1

d G N

**—88** 

в

W l gth	N mb f Ob t	M Wding	No 395 (Gr 5360a)
5490 905	1	5	$L_{AT} + 10$
5493 709	2	6	Long 219
5547 215	1	6	CLASS—I IVa IIb IVb
5627 859	6	7	
5671 071	6	7	Date-1904 Nov 20 21 22
5°72 047	6	7	W lngtl Nmb f M n
5708 797	1	6	- Op the waing
5727 878		8	$rac{4965107}{497530}$ 3 $ ho$
5781 487	6	7	4975 588 1 5
5787 288	6	8	5009 829 8 7
5762 635	1	6	5045 582 3 6
5892 608	1	6	50 3 056 6 5066 174 3 6
5899 518	8	8	5066 174 3 6 087 239 2 6
5903 748 5922 884	1	6	092 058 1 6
5933 283	2	8	5134 697 1 4
5941 845	1 1	8	5196 270 1 4
5944 580	1	6	5143 901 9 6 5147 652 8 7
958 886	1	7	5147 652 8 7 1 0 363 8 6
5900 055	1	6 5	51 2 3(1 1 7
5978 708	2	7	5219 875 3 7
6007 540	ı	6	5 25 695 1 6
6039 958	8	8	5260 561 1 6
6064 858	8	8	5426 171 8 8 132 753 1
6081 665	2	8	5160 572 e
6090 429	ī	5	5482 078 1 5
6091 895	2	8	5190 367 2 6
6111 8 2	2	8	5627 859 3 7
6119 740	2	7	5071 071 3 7
6126 135	2	7	5072 047 8 6
6150 860	2	8	Ob v —SS dGN
6199 398	8	8	
G248 O55	2	8	No 396 (Gr 5361)
6243 820	8	8	LAT + 10
6252 048	8	8	Long 234
62 4 870	2	8	
6285 884	1	8	$\mathbf{CL_{ASS}}\mathbf{-I}$ III $b$
6296 582	2	8	Date-1904 November 19
6808 700	1	7	W lett Nub f V n
6803 985	1	9	- Ob t waing
6306 024 6380 316	2	8	4863 883 1 4 4870 328 1 6
6868 090	2	8	4870 328 1 G 500∪ 829 1 6
6455 820	2 1	8 7	5015 582 1 5
64 19 168	î	7	06ს 17 ჩ 1 6
6578 080	2	9	5134 697
6574 468	2	9	130 270 1 4
6608 280	2	7	5138 518 1. 4 5138 690 1 4
6625 276	ī	9	118 901 1 5
6708 820	1	6	5147 652 1 7
6748 381	1	9	5219 875 1 4
6771 810	1	8	5420 471 ] 6
6840 086	1	8	562 859 1 5 5671 071 1 4
6842 945	1	6	5671 071 1 4 5672 047 1 4
6857 515	1	6	5687 068 1 5
6881 988	1	5	572 873 1 <b>6</b>
6888 825	1	5	5781 <b>4</b> 87 1 <b>6</b>
Ob	-88 ndGN		5787 288 1 6
Ob	pp na G N		Ob —8 <b>s</b>

No 398 (Gr 5364)	W l gth	Nmb f Ob tn	Mn. Wdg
Lat + 21	5045 582	4	6
Long 186	5053 056	3	Ċ
T10MG 190	5066 174	4	6
CLASS—I III $b$ III $a$ III $c$	5085 341	1	7
Date-1904 Nov 28 29	508 289 5120 592	2	7
	513 697	1 8	5 5
W l the Numb f M n Ob t W d nung	5136 <i>2</i> 70	8	5
4862 783 1 4	5143 901	8	_
49 5 107 2 5	5147 652	4	7
5008 825 1 4	5150 363	4	7
5009 829 2 6	5160 <b>4</b> 19 5188 079	1	ن -
5043 761 1 8	5219 875	1 4	5 7
5045 582 1 4 5066 174 1 5	5224 239	1	7
5085 841 1 7	5225 695	2	6
5087 289 1 7	5288 742	2	6
5148 901 1 7	5239 137	2	6
5147 652 2 8	5260 561	2	6
51 0 368 2 7	5282 576	1	6
5219 8 5 2 7	5381 641	1	5
5225 695 1 8	5858 806	1	5
5426 474 2 7 5460 572 1 8	5426 474 5432 753	4 3	٤
5490 367 1 8	5457 640	3 1	5 5
5627 559 2 7	5457 701	1	5
5671 071 2 6	5460 572	4	(
5672 04 <b>7</b> 2 6	5482 078	2	•
<i>5</i> 727 878 2 7	5490 367	3	6
5731 437 2 7	5493 70J	1	5
5787 288 2	5627 859	4	в
Ob —88 dGN	5671 071 5672 047	4	7
	5708 7 7	4 1	6
	5707 265	1	<b>6</b> ს
	747 873	4	8
No 399 (Gr 5366a)	5731 437	4	7
110 335 (d. 3300m)	5737 288	4	8
$L_{AT} + 28$	5900 260	1	7
	5903 748	1	Б
Long 246	5918 635	ı	7
$C_{LASS}$ — $I$ $IIIb$	5918 773 5923 865	1	7
	5988 270	1 1	7
Date 1904 Nov 28 24 25 26	5941 845	1	7 7
W 1 th N mb f M n Ob t Wd ~	5941 985	1	7
(00h(04	5978 768	1	7
4827 604 1 7 4851 689 1 8	6005 770	1	8
4909.000	6039 953	1	7
9862 029 2 5 4862 788 2 5	6064 853	1	5
4864 919 1	6081 665	_	8
4865 798 1 4	6085 <b>4</b> 70 6090 <b>4</b> 29	1	5
4901 152 1 4	6091 395	1 1	7
4905 310 1 4	6111 872	1	5 8
4965 107 4 5	6119 740	1	8 8
5009 829 4 7 5048 761	6119 970	î	8
5043 761 1 7	6126 435	1	8

W l gth	N mb Ob t	f <u>M</u> Wdg	No 407 (Gr 5373)
6135 985	1	7	Lat +12
6150 360	1	8	Long 176
6154 438	1	7	CLASS—I IV b III b
6199 898	1	9	
6210 895		8	Date -1904 Dec 1
6216 567	1	1	W 1 gth V mb f M g
6240 863	1	5	4862 029 1 5
6248 820	1	10	4862 783 1 4
6252 048	1	5	$egin{array}{cccccccccccccccccccccccccccccccccccc$
6269 080	1	5	4977 833 1 5
6 <i>2</i> 71 <del>4</del> 86	1	5	5009 829 1 G 5013 479 1 G
6274 870	1	7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
6285 384	1	6	5066 1 4 1 4
6298 170	1	6	514762 1 7
6296 582	1	5	5150 368 1 4 5219 87 1 6
6308 985	1	_	326 331 1 5
0305 935 0306 024		8	128 474 1 7
6812 456	1	9	Γ460 57 1 5 56 7 S Ω 1 6
	1	5	5871 07] 1 6
6327 820	1	4.	5672 017 1 4 5 27 873 1 6
6390 816	1	6	5 27 873 1 6 781 487 1 5
6868 090	1	8	5737 288 1 6
6366 707	1	7	0b — 58
6384 886	1	3	
6392 751	1	5	No. 410 (0 100)
6405 980	1	4	No 413 (Gr 5381a)
6455 820	1	6	Lat $+21$
6464 897	1	5	I ong 353
6483 027	1	5	CLASS—IVa IVb
6499 168	1	5	Date—1304 Dec ()
05 14 415	1	5	37 1 4 7
6554 470	1	4	W l gth N mb f M Ob t Wd g
6578 030	1	8	19( 107 1 6
6574 468	1	7	500J 82) 1 9 50I3 761 1 6
6581 452	1	4	501 582 1 6
6598 848	1	4	5053 056 1 7
6599 853	1	6	060 174 1 6 508 811 1 6
6607 215	1	4	5087 249 1 7
6625 276	1	7	5130 037 1 6
6630 70	1	4	5140 53 1 e 5147 652 1 7
6647 205	1	3	5150 363
6618 800	1	8	<b>521</b> J 87 <b>6</b> 1 9
<b>6661 320</b>	1	4	5260 561 1 6 42C 174 1 8
6698 918	1	5	5460 572 1 7
6710 570	1	4	5490 367 1 8
6743 381	1	8	5627 8 9 1 7 5671 071 1 7
6771 810	1	8	5 72 047 1 7
6807 103	1	8	5727 873 1 8
6815 210	1	3	5781 437 1 8 5797 288 1 8
01			5737 288 1 8 5743 645 1 8
Оь	•—b S	d G N	Ob —G N

No 414 (Gr 5383a)	W l gth	Nmb f M 1 Obrvt Wd	n ng
$L_{AT} + 17$	50661 4	1 5	-0
Long 336	5140 992	1 4	
CLASS-IIIb IVe IVb IIIa IVa	5147 652	1 7	
	5150 <b>363</b>	1 6	
D tte-1904 Dec 6 10 12	5164 7 <b>24</b> 5219 875	1 4	
W l gth N mb f M n Ob t Wd g	5225 695	1 7	
4862 783 1 5	5426 474	1 8	
4866 465 1 5	5460 572	1 5	
4878 440 1 4	5482 078	1 5	
4898 030 1 5 4965 107 2 6	562789	T 6	
5009 8 9 8 7	671 0 1	1 7	
5048 761 2 6	5672 047 5703 797	1 6	
5045 582 3 6	5703 797 5707 265	1 7 1 5	
50 3 056 2 7 5086 174 3 6	5727 878	1 5 1 6	
5086 174 8 6 5085 341 2 6	5781 487	1 5	
5087 289 2 7	5787 288	1 6	
189 087 2 6	Ор	s s	
5140 553 1 6		2.5	
5140 992 1 <b>6</b> 5147 652 3 <b>7</b>			
5150 863 8 7			
5209 949 1 7			
5210 059 1 7	No 418	/C# 5200	
5219 876 8 8	NO 416	(Gr 5389a)	
5260 561 2 6 5800 929 1 6	т.	- 1 10	
5420 510 1 5	ALL.	r + 13	
5426 474 3 8	Τω	NG 291	
5482 758 1 5			
5460 572 3 7 5490 367 2 8	Class—I	IVa IVb IIa	
5490 367 2 8 562 859 3 6	77-4- 10	04.70 44.44	
5671 071 3 7	Date—19	04 Dec 11 18	
5672 047 3 7	W l gth	N mb f M n	1
5703 797 1 6		Ob t Wd n	ng.
570 204 1 7 5 27 878 8 7	4862 783	1 4	
5 27 878 8 7 5781 487 8 7	4863 833 4864 919	1 4 1 6	
5737 288 3 8	4865 798	•	
5743 645 3 7	4965 107	1 4 2 4	
Ob ——SS dGN	5009 829	2 4 1 5	
	5028 308	1 6	
NO 4100	5045 582	1 5	
NO 416A (Gr 5837a)	5066 174	1 6	
Lat + 9	5140 992	1 4	
	5147 652	1 7	
Long 355	5150 36 <b>3</b> 5219 875	1 4	
CLASS—IIc IIIb I	5 <i>4</i> 25 695	1 6 1 6	
Date-1904 Dec 9	5420 510		
NT L C	5426 474	1 6	
Ob t Wd g	<b>54</b> 80 <b>57</b> <i>≥</i>	1 5	
486 029 1 6	5627 859	1 6	
4862 788 1 5 4864 919 1 0	5671 071	1 7	
4864 919 1 8 4965 107 1 4	5672 047	1 5	
5009 829 1 8	5708 797	1 5	
5016 340 1 6	5 07 204	1 5	
5045 582	5 <b>72</b> 7 878	1 5	

5737 288	1	W 1 g 5	W 1 gth 5800 929	Ob t	₩d
6248 320	1	9	5420 510	1	5
6274 870	1	6	5426 474	3	7 8
6285 884	1	7	5400 572	3	6
6803 985	1	4	5461 762	1	6
6300 0 4	1	9	5482 078	ī	6
69 7 820 6830 316	1	4	5490 367	3	6
6868 090	1	7	5490 905	9	5
G455 820	1	7	553 968	1	6
6469 050	1 1	8	56 7 859	3	7
6482 098	1	4	5671 071	8	7
(554 470	1	4. 5	5672 047	8	6
6555 700	1	6	5708 797	8	6
6573 030	1	8	5707 204	3	7
6599 858	1	6	5727 873	3	6
66 5 276	1	5	781 487	8	6
6 <b>0</b> 80 270	1	5	5797 288	3	8
4.3		· ·	5743 645	8	7
ОÞ	—BB dGN		5866 675	3	5
			<b>5</b> 807 <b>7</b> 85	1	4
			ОЪ	s s	
No 419	9 (Gr 539	00)			

Long 268

CLASS-Ha IVe IVb IIIa V

Date-1904 Dec 14 15 16

w	1	th	N Ob	mb t	£	M W d	g
48	363 88	33		1		7	
48	86 T 93	L9		8		7	
40	20 04	<b>¥</b> 7		1		6	
49	65 10	)7		3		5	
50	ю9 82	19		8		6	
50	11 11	.9		1		6	
0	17 70	2		1		5	
50	20 20	8		1		5	
5	3 67	4		1		6	
50	46 58	2		8		б	
<b>5</b> 0	66 17	4		8		6	
508	3 23	9		1		6	
513	30 54	8		1			
513	34 69	7		1		5	
5 3	8 270	)		2		8	
514	¥7 65:	3		d		7	
515	0 368	3		2		5	
(	2 90			1		5	
521	.9 878	5		8		6	
522	5 695	į .		8		6	
<b>5</b> 80	0 1 5 2	}		1		5	

LAT - 15

Long 76

CLASS-IIIb IIc IIa

Date	—1	904	Dec	31 as	nd 18	905 Jan	4
W	1	Lth	0	N mb b 1	f	W d	8
48	36 <b>2</b> 0	9		1		5	
48	36 7	83		2		4	
48	74 9	76		1		5	
49	65 1	07		2		5	
50	09 8	29		2		6	
50	16 8	40		2		6	
50	49 7	<b>51</b>		1		6	
50	45 5	82				7	
50	6 <b>6 1</b> ′	74		1		6	
518	89 87	70		1		6	
518	84 68	97		1		5	
513	36 27	70		2		6	
518	38 68	90		1		4	
514	<b>48</b> 90	)1		1		6	
514	17 6t	52		2		8	
518	50 86	38		1		5	
518	6 82	8		1		6	
521	19 87	5		2		7	
522	85 6S	5		2		•	

W 1 gth	N mb f Ob t	M Wdg	No 447	
5426 474	2	8	_	
5460 572	2	6	LAT + 21	
5490 367 56 7 859	2 2	5 6	Long 255	
5671 071	2	7	LIONG 255	
672 047	2	6	CLASS—IVa IVb	
5708 797	1	5		
570 <b>7 204</b> 5727 873	1 2	6 6	Date-1905 Jan 10 12	
5727 673 5781 487	2	6	W loth Nmb f l	M.
5737 288	2	8	W l gth Ob t W	
5748 645	2	7	4965 107 2	6
0	b —88		<b>5</b> 009 829 2	7
			5048 761 1	5
			5045 582 2	Б
			5053 056 1	8
			5086 174 2	6
			5085 341 1	7
			5087 239 1	6
N	lo 443		5 30 543 1	5
			5184 697 1	4
I	LAT — 18		5136 270 1	5
			5138 690 1	4
•	ong 325		5143 901 1	7
Olass—	I IIIb IVd	$\mathbf{I} \nabla b$	5147 652	8
Data	—1905 Jan	a	<b>515</b> 0 363 1	7
Dute-			5156 828 1	4
W l gtl	$\begin{array}{cccc} \mathbf{N} \ \mathbf{m} \mathbf{b} & \mathbf{f} \\ \mathbf{Ob} & \mathbf{t} \end{array}$	M n Widing	5167 168 1	5
4862 029	1	6	5160 138 1	4
4862 783	1	4	5219 875 2	8
4864 919	1	6	<b>5225</b> 695 1	6
4914 702	1	Б	5260 561	7
4965 107 5009 8 9	1	<b>4</b> 6	5426 474 2	8
5016 340	1	4	<b>5457</b> 640 1	4
5045 582	1	4	5490 3 7	7
5059 0 6	1	4	5490 905 1	5
5086 174 5184 807	1	6	5588 025 1	4
5184 697 5186 270	1 1	4 4	5538 788 1	4
5147 65	1	7	5627 859 2	7
<b>5219</b> 875	1	6	5671 071	7
5420 510	1	6	5072 047 2	6
5428 474 5627 859	1 1	6	5700 40 1	5
5671 071	1	5 5	5 08 797 2	
5672 047	1	4	5707 204 1	7
5703 797	1	6	5727 878 2	7
5707 204 5797 979	1	7	5781 487 2	7
5727 873 <b>5</b> 781 <b>487</b>	1 1	4	5737 288	8
5737 288	1	<b>4</b> 7	5748 645 2	7
5748 645	1	5	5866 675 1 586 <b>7</b> 785 1	5
(	Ob —88			6
`			Ob rv —88 nd G N	

	No 449		W 1 gtl N mb f M
	Lat + 9		OD t WI
	Long 231		5627 859 8 7
	OLASS—IIIa		5671 071 8 7 5672 047 8 6
			5680 694 1
Date—1905	Jan 11 13	14 15 16	5700 508 1 5 5703 797 6
	17 18 19		5703 797 6 5707 204 8 7
W l gth	N ml f	M	5727 873 8 7
	Ob t	Wolg	5731 <b>4</b> 37 8 <b>7</b>
4862 029 4862 783	4 1	5	<b>5787</b> 288 8 8
4864 919	4	4. 7	5713 645 8 6
4870 3 3	ī	6	5766 550 1 6 5866 875 1
487 671	2	7	5867 85 2 7
4885 264	1	5	
4918 808	2	6	Ob 88 dGM
4915 414	1	6	
4928 511	1	6	
496 107 5009 8 9	7	6	
500 <i>8</i> 8 9	8 4	8 6	
50 3 052	1	5	No 450
043 761	2	6	
5044 011	1	5	IAT + 9
5045 582	8	6	Long 225
5058 056	4	6	
5006 174	7	(	$\mathbf{OLASS}$ — $\mathbf{III}a$
5085 341	1	f	Date -1905 Jan 17 1)
5087 289 5106 ( 23	4	7	
5116 J44	1	5 5	W l gtl Ob t V l s
F1 7 071	1	b	4905 107 7
5118 112	1	5	5009 829 8
513 843	1	5	5015 82 2 7
5134 697	2	5	5058 056 7
5186 270	3	5	5066 171 C
5138 518 5140 553	2	7	508 289 2 7
5140 992	3 2	7	5188 518 1 7
514762	8	7	5140 d 2 7 511762 2 2 7
5150 8C8	7	6	51 0 303 2 7
<b>5</b> 156 82 <b>8</b>	1	4	5219 875 2 8
5160 419	1	4	5238 7 12 2 8
5168 074	1	4	520 561
<b>52</b> 19 875	8	7	5426 474 2 8
52 5 695	3	6	5460 572 2 8
5238 712 239 137	3	8	5490 807 2 8
5 0 561	1 5	3 6	5627 859 2 7 671 071 2
5426 474	8	8	5672 017 7
5460 57 <b>2</b>	8	7	67 7 873 2 8
5471 414	1	4	5781 43 8
5477 901	1	5	5737 288
548 078	2	5	5748 645 1 7
5490 367 5400 005	8	7	5766 550 1 6
5490 905 5588 025	3	5	5807 785 1 7
<b>5</b> 588 025	1	5	Ob - G N
			8

N	lo 451		W 1 gth Numb f	Мл
1	JAT + 10		OD t	Wdg
			5150 868 1 5219 875 2	<b>5</b>
	LONG 219		5225 695 2	7 7
O:	Lass— $\coprod a$		5426 474 2	6
Date-	–1905 Jan 1	9	5627 859 2	6
	N mb f	_	5671 071 2 5672 047 2	5
W I h	Ob t	Wdg	5708 797 2	5 6
<del>49</del> 65 107	1	7	5707 204 2	5
5009 829	1	8	5727 873 2	5
5045 582	1	6	5781 487 2	5
5053 056 5066 174	1	7	57 7 288 2	6
5087 289	1 1	6	0b — 8 8	
5140 558	1	7 6		
5147 652	1	7		
5150 363	1	7		
5219 875	1	8	No 455	
5288 742	1	7	NO 433	
5260 561 5426 474	1	6	$L_{AT} - 18$	
5460 572	1 1	8	T 100	
5490 867	1	8 8	Long 168	
5627 859	1	7	CIASS—I IVc IVe IIc	Mill all
5671 071	1	7		
5072 047	1	7	Date-1905 Jan 20 2	22 23
57 7 873	1	8	W 1 gtl N mb f	<b>M</b>
5781 487 57 <b>37</b> 288	1	8	Op t	W d g
	_	8	4862 029 2 486 783 1	6
ОР	-G N		486 783 1 4864 919 2	5
			4875 671	8 7
			4965 107	6
N	lo 454		5001 165	6
			009 829 3	7
77	MT + 21		5016 840 2 5017 762 1	7
L	ONG 170		5017 762 1 5045 582 2	5
		-	5066 1 4 2	6 6
	—IVa IVb 1	-	508 239 1	7
Date-1	905 Jan 20	21	5140 553	6
W l gth	`mk f	M	5147 652 8	7
	Ob t	Wd g	5150 368 2 5219 875 2	6
456 029	1	5	5219 875 2 5225 695 1	7
4864 919	2	7	5 88 742 1	7
4875 671 49 8 511	2	5	5426 474 2	8
4 65 107	1 1	5	5460 5 g	7
500989	2	5 7	5490 d67 2	7
5016 340	~	7	5627 859 2 5871 071 2	7
5020 08	1	6	5672 047 <b>2</b>	7 6
5028 05	1	7	5708 797 1	7
5045 582	1	5	5707 204 1	7
5066 174 5134 697	1	5	5727 878 2	7
5186 2 0	1 1		5781 487 <b>2</b>	7
514 652	2	7	5737 288 2	8
	=	•	Ob —88 dG1	<b>N</b>

No 465

No 464

## LAT -- 15 Lat + 13 Long 281 Long 329 CLASS-IVa IVb IIa IIb IVe IVc CLASS-IVc Date-1905 Feb 10 11 Date-1905 Jan 29 31 Feb 2 4 6 7 8 9 N mb f W l gth N b f wa n W 1 gth 4863 838 4864 919 486 029 6 7 7 48703 8 4863 888 1 7 4965 107 1 4864 919 6 9 5009 829 4870 990 3 7 5016 340 1 4875 671 5045 582 6 7 5053 056 4965 107 3 6 066 174 2 5000 82J 8 8 5087 289 1 5016 840 G 8 5120 592 6 5020 208 1 7 5186 270 1 G 5028 052 1 8 5143 90 1 5025 0 7 1 7 147 652 8 5048 761 2 5150 363 1 7 7 1 6 823 1 5045 582 ß ß 160 554 5053 056 в 2 7 5164 007 1 066 174 8 8 5219 875 2 508 83 2 в 5225 695 5136 270 5 8 5288 742 1 7 5143 101 2 5 60 561 G 1 5147 652 5426 474 8 8 5460 572 514)08 1 2 6 5490 367 5150 868 1 G 7 5627 859 5156 823 4 6 56 1 071 2 5160 188 7 5672 047 2 5160 54 2 703 797 5 1 5707 204 5103 200 1 5727 878 5101007 2 5 5731 487 521)875 8 8 5737 288 5 1928 1 7 5743 645 2 2 895 7 5867 785 1 5 8871 2 7 Оb —ss dgn 5 (0 561 2 6 5300 J 9 1 7 5866 950 1 7 5426 174 8 9 No 473 5460 5 2 8 8 5490 367 8 Lar + 217 490 905 6 в LONG 201 5598 524 2 6 56 7859 CLASS-I IIa IVb IVa 8 7 671 071 8 7 Date-1905 Feb 12 14 15 16 18 5672 047 8 7 N mb f M W 1 gth 5703 797 6 ОЪ t 7 Wd 5707 04 6 4862 029 8 5727 873 4862 783 8 7 5731 137 4803 833 в 4864 919 5787 288 8 4870 328 5748 045 1 7 4875 671 586665 6 4920 047 5867 785 8 4925 46 6 1 4928 511 Оb —38 g c n 6

4J65 107

W I tl	N mb f	M	W 1 At V mb	
	Ob t	W d. g	W 1 gtl Ob t	f M Wdg
5001 165	1	7	5150 868	Wag 7
500989	4	7	5156 828 1	6
5011 119 5013 <b>4</b> 79	1	5 8	5160 554 1	6
5016 340	4	7	5164 007 1	6
5018 629	1	6	5219 875 1	8
5020 208	1	6	5238 742 1	7
5043 761 5045 582	2 3	6.	5260 561 1	6
5053 058	1	6 7	5426 474 1	8
5088 174	6	7	5460 572 1	8
508 239	3	7	5490 867 1	7
5120 92 5186 270	1 1	6	5627 859 1	6
5143 901	2	8 7	5671 071 1	6
5147 652	6	8	5672 047 1 5727 873 1	6
5150 868	1	7	5731 437	8 8
5156 828	1	6	5737 288 1	8
5160 554 5164 007	1 1	6	5743 645 1	7
5219 875	5	6 7	5867 785	G
5225 69	3	7	Ob —G	·
5288 74	2	7	ου —α·	19
5280 61 5426 474	2	6		
5460 572	6 3	8 7		
5490 367	8	7		
5514 563	3	6	No 487	7
5517 084	1	e	<b>+</b>	
56 7 859 5671 071	4	6	$L_{AT} + 7$	
5672 047	6 6	7 6	Long 40	
5703 97	8	8		
5707 204	8	8	Class—I $\Pi \Box a$ IV $b$ II	$\square b \ \square a \ \square Va$
5727 873	3	_		
when a sale		7	Date_1005 Fak 9	4 95 9 <i>0</i>
5731 437	3	7	Date—1905 Feb 2	_
5787 288	3 6	7 8	W loth Nub	f M n
	3	7 8 7	W 1 gth N mb t	f Mn Wdg
5787 288 5 48 64	3 6 3	7 8	$egin{array}{ccccc} W & 1 & \mathrm{gth} & egin{array}{cccc} N & \mathrm{mb} & \\ Ob & t & \\ 4862783 & 1 & \end{array}$	f Mn Wdg
5787 288 5 48 64 5886 67	3 6 3 1 2	7 8 7 6 G	$egin{array}{cccccccccccccccccccccccccccccccccccc$	f M n W d g 5 6
5787 288 5 43 64 5866 67 5867 785	3 6 3 1 2	7 8 7 6 G	W 1 gth N mb Ob t 4862 783 1 4868 883 1	f M n Wd g 5 6 7
5787 288 5 43 64 5866 67 5867 785	3 6 3 1 2	7 8 7 6 G	W 1 gth N mb 4862 783 1 4863 833 1 4864 919 3	f M n W d g 5 6
5787 288 5 43 64 5866 67 5867 785	3 6 3 1 2	7 8 7 6 G	W 1 gth N mb 4862 783 1 4863 893 1 4864 919 3 4870 323 1	f M n y 5 6 7 8 6
5787 288 5 43 64 5886 67 5867 785 Ol	3 6 3 1 2 -88 d.G.1	7 8 7 6 G	W 1 gth N mb 4862 783 1 4863 893 1 4864 919 3 4870 328 1 48 5 671 8 4876 060 1 4885 264 2	f M n Wd g 5 6 7 8
5787 288 5 43 64 5886 67 5867 785 Ol	3 6 3 1 2	7 8 7 6 G	W 1 gth N mb 4862 783 1 4868 893 1 4864 919 3 4870 323 1 48 5 671 8 4878 060 1 4885 264 2 4965 107 2	f M n y 5 6 7 8 6 6 6
5787 288 5 43 64 5886 67 5867 785 O1	3 6 3 1 2 -88 d G l	7 8 7 6 G	W 1 gth Ob t  4862 783 1  4868 893 1  4864 919 3  4870 323 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3	f M n y 5 6 7 8 6 6 6 8
5787 288 5 43 64 5886 67 5867 785 O1	3 6 3 1 2 -ss dG1 <b>No 478</b>	7 8 7 6 G	W 1 gth Ob t  4862 783 1  4868 893 1  4864 919 3  4870 328 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1	f M n y 5 6 7 8 6 6 6 8 7
5787 288 5 43 64 5886 67 5867 785 O1	3 6 3 1 2 -ss dG1 <b>No 478</b>	7 8 7 6 G	W 1 gth Ob t  4862 783 1  4868 833 1  4864 919 3  4870 328 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1	f M n y 5 6 7 8 6 6 8 7 7
5787 288 5 43 64 5886 67 5867 785 O1	3 6 3 1 2 -ss d G1 No 478 Lat + 9 Long 268	7 8 7 6 G	W 1 gth Ob t  4862 783 1  4868 893 1  4864 919 3  4870 323 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1  5020 08 1	f M n y 5 6 7 8 6 6 8 7 7 8 8
5787 288 5 43 64 5886 67 5867 785 O1	3 6 3 1 2 -ss dG1 <b>No 478</b>	7 8 7 6 G	W 1 gth Ob t  4862 783 1  4868 893 1  4864 919 3  4870 323 1  48 5 671 8  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 179 1  5016 340 1  5020 08 1  5043 761 2	f M n g 5 6 7 8 6 6 8 7 7 8 8 8 8
5787 288 5 43 64 5886 67 5867 785 O1	3 6 3 1 2 2 -88 d G 1 4 7 8 LAT + 9 LONG 268 59—I IIc IIb	7 8 7 6 G	W 1 gth Ob t  4862 783 1  4863 833 1  4864 919 3  4870 323 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1  5020 08 1  5043 761 2  5043 88 2	f M n g 5 6 7 8 6 6 8 7 7 8 8 8 7 6 6 6
5787 288 5 43 64 5886 67 5867 785 O1 I CLAS	3 6 3 1 2 2 4 6 1 4 5 4 6 1 4 5 4 6 1 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 8 7 6 6 7	W 1 gth Ob t  4862 783 1  4863 833 1  4864 919 3  4870 323 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1  5020 08 1  5043 761 2  5043 88 2  5045 582 8	f M n g 5 6 7 8 6 6 6 8 7 7 8 8 8 7 6 6 6 6 6 6
5787 288 5 43 64 5886 67 5867 785 O1	3 6 3 1 2 2 -88 d G 1 4 7 8 LAT + 9 LONG 268 59—I IIc IIb	7 8 7 6 C	W 1 gth Ob t  4862 783 1  4863 893 1  4864 919 3  4870 323 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1  5020 08 1  5043 761 2  5048 88 2  5045 582 3  5053 056 2	f M n g 5 6 7 8 6 6 8 7 7 8 8 8 7 6 6 6 6 6 6 6 6
5787 288 5 43 64 5886 67 5867 785 O1 I CLAS	3 6 3 1 2 2 d G 1 478  NO 478  LAT + 9  LONG 268  SS-I IIc IIb -1905 Feb 1	7 8 7 6 G	W 1 gth Ob t  4862 783 1  4863 893 1  4864 919 3  4870 323 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1  5020 08 1  5043 761 2  5048 88 2  5045 582 3  5053 056 2  5066 174 3	f M n g 5 6 7 8 6 6 8 7 7 8 8 8 7 6 6 6 6 6 7
5787 288 5 43 64 5886 67 5867 785 O1  CLAS  Date- W 1 th 496 107 5009 8 9	3 6 3 1 2 2 4 6 1 1 2 4 6 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 8 7 6 6 7 8 Wd g	W 1 gth Ob t  4862 783 1  4863 833 1  4864 919 3  4870 323 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1  5020 08 1  5043 761 2  5048 88 2  5045 582 8  5053 056 2  5066 174 8  5087 39 2	f M n g 5 6 7 8 6 6 8 7 7 8 8 8 7 6 6 6 6 7 7
5787 288 5 43 64 5886 67 5867 785 O1  CLASS Date- W 1 th 496 107 5009 8 9 5045 58	3 6 3 1 2 2 4 6 1 1 2 4 6 6 1 1 2 1	7 8 7 6 6 7	W 1 gth Ob t  4862 783 1  4863 833 1  4864 919 3  4870 323 1  48 5 671 3  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1  5020 08 1  5043 761 2  5043 88 2  5045 582 3  5053 056 2  5066 174 3  5087 39 2  5148 901 2	f M n g 5 6 7 8 6 6 8 7 7 8 8 8 7 6 6 6 6 7 7 6
5787 288 5 43 64 5886 67 5867 785 O1  CLAS  Date-  W 1 th 496 107 5009 8 9 5045 58 5058 056	3 6 3 1 2 2 -SS dG1  NO 478  LAT + 9  LONG 268  SS-I IIc IIb -1905 Feb 1  N mb f Ob t 1  1 1	7 8 7 6 6 7 8 Wd g 7 8	W 1 gth Ob t  4862 783 1  4868 893 1  4864 919 3  4870 323 1  48 5 671 8  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 179 1  5016 340 1  5020 08 1  5043 761 2  5043 88 2  5045 582 8  5058 056 2  5060 174 8  5087 39 2  5143 901 2  5147 852 3	f M n g 5 6 7 8 6 6 8 7 7 8 8 7 6 6 6 7 7 6 7
5787 288 5 43 64 5886 67 5867 785 O1  CLAS  Date- W 1 th 496 107 5009 8 9 5045 58 5058 056 5068 174	3 6 3 1 2 2 -SS d G 1 478 LAT + 9 LONG 268 Sq—I IIc IIb -1905 Feb 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 8 7 6 6 7 8 Wd g 7 8	W 1 gth Ob t  4862 783 1  4863 893 1  4864 919 3  4870 323 1  48 5 671 8  4876 060 1  4885 264 2  4965 107 2  5009 829 3  5013 479 1  5016 340 1  5020 08 1  5043 761 2  5048 88 2  5045 582 8  5053 056 2  5060 174 8  5087 39 2  5143 901 2  5147 652 3	f M n g 5 6 7 8 6 6 8 7 7 8 8 7 6 6 6 7 7 6 7 7
5787 288 5 43 64 5886 67 5867 785 O1  CLAS  Date- W 1 th 496 107 5009 8 9 5045 58 5053 056 5066 174 508 239	3 6 3 1 2 2 -SS d G 1 478 LAT + 9 LONG 268 S9—I IIc IIb -1905 Feb 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 8 7 6 6 7 8 Wd g 7 8 6	W 1 gth Ob t  4862 783	f M n g 5 6 7 8 6 6 8 7 7 8 8 7 6 6 6 7 7 6 7
5787 288 5 43 64 5886 67 5867 785 O1  CLAS  Date- W 1 th  496 107 5009 8 9 5045 58 5053 056 5068 174 508 239 51 0 59	3 6 3 1 2 2 -SS d G 1	7 8 7 6 6 7 8 W d g 7 8 6 7	W 1 gth Ob t  4862 783	f M n g 5 6 7 8 6 6 8 7 7 8 8 7 6 6 7 7 6 7 7 8
5787 288 5 43 64 5886 67 5867 785 O1  CLAS  Date- W 1 th 496 107 5009 8 9 5045 58 5053 056 5066 174 508 239	3 6 3 1 2 2 -SS d G 1 478 LAT + 9 LONG 268 S9—I IIc IIb -1905 Feb 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 8 7 6 G N W d g 7 8 6 7	W 1 gth Ob t  4862 783	f M n g 5 6 7 8 6 6 8 7 7 8 8 7 6 6 6 7 7 6 7 7 8 8

Lat -16

Long 334

CLASS—I IVc IVd IIIa

## No 491

LAT +10

Long 271

CLASS—I IIIb IVd

			Olass-I $IIIb$	$\mathbf{IV}d$
Date -1905	Feb 27 28	<i>Marc</i> / 1 3	Dau-1905 Marcl 5 6 7	7 8 9 10 11
W 1 gth	N b f Ob t	W d g	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	f M Wdg
<del>4</del> 862 029	1	7	4563 883 1	7
4863 833	2	8	4864 919 4	7
4864 J1J	4	8	4808 451 1	9
487 671		7	4870 <b>323</b> 1 4875 <b>6</b> 71	<b>ծ</b> գ
490 310	1		4885 264 2	8
		7	4.021 963 1	7
4965 107	2	7	4928 11 4985 595 1	8
5009 829	4	7	4985 595 1 4939 8(8 1	6
501 3 479	3	7	4 16 107	ž
01630	3	8	4J75 530 1	6
5028 052	1	7	1978 782 4978 785 1	₿ (
5043 701	2	7	5001 165 2	ģ
504 582	3		500 ) 82.) 7	7
5066 174		7	5018 479 3 01 310 3	8
	4	8	01 310 3 5023 052 1	8 8
087 239	2	7	5018 761 2	7
5136 70	8	8	5045 582 5	7
5143 J01	2	7	50 3 056 4, 5066 174	6 8
5147 65 <i>2</i>	4	8	087 23J 5	7
5219 875	4	7	5130 43 1	6
52 5 695	3	7	13( 70	8 6
298 742	1	7	£147 (52 7	8
52 3 639	1		51 0 368 2	7
5800 929		6	521)87 ( 522 ()5 2	8
	1	6	r 38 7 12 4	8
5420 510	1	8	52 110 1	7
426 474	4	9	5260 561 3 5300 329 1	6
4(0 572	4	7	5107 820	7 8
5490 867	2	8	<b>51</b> 0 10	8
5490 905	1	6	126 474 7 7460 2	8
5627 859	8	7	7460 2 51J0 3 <del>6</del> 7 r	8 7
5671 071	4		5514 568	7
5672 047	4	7	5516 950	7
5703 797	3	8	5535 061 1 5( 859 7	ს 7
5707 404			5071 071	7
	3	8	5072 017 6	
5727 878	2	7	5703 797 570 04 3	8 8
5731 <del>4</del> 37	2	7	5727 878 4 <sub>4</sub>	8
5787 288	4	8	5781 487 4	8
5743 645	3	7	5737 28 7 5743 61 4	8
5866 675	1	6	578 952 1	7 7
5867 785	1	6	5866 (7 2	7
Ob	-BB & d G Y		5867 785 3	6
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	No 504		W 1 gth Nu		_ <b>M</b>	
	Lat -18		5043 761.	t 1	Wd 6	g
	Long 40		5045 582	2	7	
_			5053 056 5006 174	1	6	
CLASS1	[Va IVb IIIa	IVe I	5087 289	2 2	8 6	
Date	-1905 <i>March</i>	23	5148 901	1	6	
₩ 1 gth	N mb f	M	5147 65	8	8	
	Ob t	Wd mg	5150 36 <b>3</b> 5189 948	1	7	
4863 888	•	6	5 19 875	1 8	6 8	
4864 919 875 671	1	10	5225 69	2	6	
4885 64	1	8 8	5238 742	1	6	
4928 511	1	7	5289 137	1	6	
4986 512	1	7	5300 1 2	1	5	
4965 107	1	6	5426 474 5460 72	3	9	
5001 165 5009 829	1	9	5490 307	<b>3</b>	8 7	
5013 479	1 1	7	5490 905	1	6	
5016 840	1	8	5587 928	1	7	
5023 052	1	8	5627 859	3	7	
5045 582	1	7	5671 071	3	7	
5066 174	1	8	5672 047	8	7	
5147 652 5150 868	1	8	5708 797 5707 204	1	8	
5219 875	1 1	7 7	5727 878	2	8 8	
5225 695	1	8	5731 437	2	8	
5426 <b>474</b>	1	_	5737 288	3	8	
5460 57	1	7	5748 645	3	8	
5490 367	_			1 1	6	
5627 859 5671 071	1	8			6	
672 047	1 1	8 8	Оъ — 8 8	g g G M		
5703 797	ī	8				
5707 204	1	7				
5727 873	1	7	No 5	II		
5731 437 5787 88	1	7	Lat +	18		
5866 675	1 1	8 6	Long 2			
1200 010		0				
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			Date—1905 2	1 <i>pril</i> 6 8	1	
	No 507		W l gth N m		M. Wd	g
	Lat - 14			2	8	_
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		_		2	7	
Date-1	905 March 26	27 29		2 2	8 6	
W 1 g-th	N mb f Ob t	M. Wdg	5219 875	1	7	
4964 010	-	•		2	7	
4864 919 4568 296	2 1	8 7		I. 1	8 6	
487561	•	7	5671 071	2	8	
488 264	1	6		2	7	
4965 107	2	6		I. L	7 7	
5009 829	8	8	5787 288	2	8	
5013 479 5016 840	<u>)</u> 1	6	5748 645	2	7	
0010 040			Оь	-8 B		

1	No 520		No 529
1	LAT — 20		$L_{\mathtt{AT}}$ $+14$
J	Long 119		
	-I V IIa I	<b>57</b>	Long 345
			CLASS—I IIa IIc IIIb IVa
Date—1905 Apr			Date-1905 April 23 24
W l gth	N'mbf Obt	Ma Wdg	W 1 6th N mb f M
4961919	3	10	··· - 6 ··· Obt Walg
4875 671	3	8	4864 919 2 8
4885 264	1	7	4875 G71 2 7 49 8 511 1 7
49 8 511	2		001 107
4986 12	1	6	5001 166 1 6 5009 829 2 7
5001 16	8	8	5023 052 1 6
5009 829	6	8	5015 8 2 6
5013 479	1	7	06(14)
5016 3 10	1.	7	5147 05 2 8
5020 208	1	7	150 863 1 7
5025 027	1	9	19 875 2 7 2 095 1
5013 761	1	4	E400 (M)
504 582	8	6	460 572 2 8
066 174	4	6	6 7 850 2 7
5136 270	2	(	671 071 2 7
51 19 901 147 65 <i>2</i>	<b>8</b>	6	507 047 2 7
51 0 dG3	6	7	5737 288
51 0 303 5219 87	3 6	6	Ob —88
52 5 695	1	8	
5298712	2	7 7	
52(0 561	2	7	No. 526
5426 474	7	7	No 536
5460 572	6	8	LAT + 22
5190 367	5	7	
5627 859	7	6	Long 210
5671 071	7	7	CLASS—I III $a$ IV $d$ IV $b$
5672017	7	7	
703 797	2	7	Dale1900 May 3 4 5 6 7
5707 204	2	7	W l i N l i M
5727 879	3	7	
578 137	4	7	1808 833 8
737 288	6	8	1864 91 ) 3 10 4866 151 2 7
57 13 615	1	7	49HE AHT
5966 0 5	1	6	4007 F00
6199 398	3	6	1885 G4 1 G
6210 895 62 0 567	8	5	19 8 511 1 6
6218 055	<b>3</b>	5	4965 107 1 7
6243 320	2	8	001 165 3 8
6298 080	2	8 6	5009 820 g 7
6293 170	2	6	5013 179 2 8 5010 340 2 8
6906 024	3	8	KOR 080 -
6880 816	1	6	5062 85 1 4
6 78 080	- 2	7	5068 3 5 1 4
Ob	-88 nd G N		5066 0 <b>8</b> 1 5
	~ - MQ O I		5066 174 4 8

Wa l gth	N mb f	М	W 1 ti	N mb f	M
5085 668	Ob t	W d g		ob t	W d g
5087 289	1	6 7	5918 68	1	8
5184 697	1	4	5918 773	2	7
5136 27	3	7	5923 865	1	6
5139 037	1	4	5924 040	1	8
5140 553	1	4	5938 70	2	6
5143 901	1	5	5941 845	2	8
147 G5	4	8	5941 985	1	8
150 363	3	7	5966 055	2	6
5156 829	1	4	5978 768	2	7
5160 419	1	3	6030 9 3	2	7
5164 404	1	4	6068 080	1	5
5201 260	1	5	6064 853	1	4
5210 059	ı	5	6081 665	1	4
5212 859	1	6	6085 170	1	5
5219 87	4	8	6090 429	1	4
5225 695	3	8	611,740	1	8
5238 742	1	7	6119 9 0	1	8
5239 137	1	, 5	6126 485	1	7
52 978	-	4	6135 985	1	6
5257 814	1	4	6150 360	1	6
5260 61	1	6	6154 438	1	5
5295 485	1	7	6166 651	1	4
5426 474	4	10	6199 898	2	6
5482 753	1	4	6210 895	2	6
5457 640	1	4	6216 567		ī
5467 701	1		6224 198	1	4
5460 572	4	4. 9	6243 320	2	9
<b>54</b> 7 901	1	6	6252 048	1	4
5482 078	1		6258 927	1	5
5490 367	2	6 8	6261 316	1	4
5490 905	1	6	6274 170	2	6
5587 J28	1	· ·	6280 598	1	i.
5588 0 5	2	6	6 85 384	2	7
56 7 859	4	7	6293 030	1	6
5671 ( 71	4	8	6293 170	2	7
567 047	4	8	630G 0 <i>24.</i> 6330 316	2	8
5689 94	1	5	6863 090	1	5
5689 812	1	5	6455 820	1	4
5 00 402	2	7	6469 408	1	4
5 00 508	1	5	6471 885	1	4
5 03 797	3	8	6482 0 8	1	4
5707 204	8	8	6498 180	1	4
<b>5707 5</b>	1	r	6495 213	2	4
<b>5</b> 727 878	3	7	6499 168	2	4
<b>5791 437</b>	8	7	6518 599	1	6
5 87 288	4	9	6573 080	1	8
5748 645	4	8	6625 276	2	7
5866 675	2	7	6717 940	1	5
<b>59</b> 00 260	1	6			4
			Ob	pg dGM	

No 547

No 541

	INO OTI			No 547	
	LAT — 18			I AT14	
	Long 185				
CLASS	-I IIc IIIa I	Πλ		Long 68	T77
	ate-1905 May			CLASS—IIc IIIa IVb IIa	
200	•			Date-1905 May 15 16 17	19 22
W 1 th	h N'mlf Obt	M. Wd	g	$egin{array}{cccccccccccccccccccccccccccccccccccc$	M d g
4868 838	1			4868 838 1	10 g
4864 919 4875 671	1			4661910 3	9
5001 16	1 1			4875 6 1 3	7
5009 829	1			4925 746 1	7
5080 171	ĩ			49°5 107 2 5001 165 2	5
5117 652	1			5000 829 5	7 7
5225 6J5	1			5018 179 3	8
5426 474	1			5010 3 10 3	8
5460 572 5627 859	1 1			5028 052 1	9
5671 071	1			5025 719	8
5672 047	ī			5045 582 8 50G <i>à</i> 285 1	6
<b>5787 288</b>	1			506G 17± 4	0
	0b —88			5087 39 1	8 7
				5180 518	7
				5132 813 1	7
				5134 697	7
	No 544			533C 270 ] 5147 C 2	7
	LAT +12			6149 013 1	8
				5150 868 4	5 7
	<b>Long 161</b>			<b>521.</b> J 87 5	7
Cı	LASS-IIIa IVb			522 695 <u>2</u> 54 0 171 5	7
Dat	te-1905 May 1	1		4°C0 572	) 8
				5490 387	7
W 1 gtl	N mb f Ob t	M W d	g	5( 7 879	7
48°4 919	1	10	•	671 071 5 5672 047	8 8
4875 671	ī	8		5703 797 5	7
4921 968	1	6		570 201 3	8
5001 165		7		67 7 878 4 5781 137 j	
5009 820	1	7		5781 137 j 57 288 5	Ć,
5018 179 5016 840	1			5743 A16 6	) 8
5023 052	1 1	7		5866 675	7
5 )45 582	1	8 6		Ob -89 dGN	•
5066 174	ī	9		o o o o o o o o o o o o o o o o o o o	
5087 239	1	8			
5186 270	1	7		W. Hoo.	
5147 652	1	9		No 563 A	
5150 368 5219 875	1	7		LAT +10	
5428 474	1	7			
5460 572	1	9 8		Long 174	
5490 867	1	7		CLASS—I III $a$ II $c$ II $b$ IV	ь
5627 850	1	7		Date-1905 June 2 6 7	
5671 071	1	8			8
5672 047 5708 797	1 1	8		W l gth N l f N	-
5703 797 5707 204	1	7		4000 000	•
5727 873	1	7 6		4864 919 3	8
5731 487	1	6		4875 671 2	10 9
5787 288	1	9		4885 264	U
5743 645	1	8		4965 107	
(	Obs — <b>5</b> S			5001 165 1	7
				5009 829 9	7
				10	

W 1 gth	N mb f Ob t	<b>M</b> Wd g	No 568	
5013 479	2	8	Lat16	
5016 840 5023 052	2 3	8 9		
5045 58	2	7	Long 70	
5068 1 4 5134 697	8 1	9 <b>7</b>	CLASS—IIIb IVb IV	Ta
5136 270	1	7	Date-1905 June 12 1	R 15
5148 931 5147 652	1 4	7 10	37 1 4	
5149 013	1		W 1 gth N mb f Ob t	Man Wdg
5150 363 521J 875	2 3	9 7	4862 029 1	8
5225 695	1	7	4864 919 8	9
5260 561	1	4	4875 671 1	9
5426 474 5480 572	4 2	9 8	5001 165 2 5009 829 %	7
5537 9 8	1	5	5005 825 4	8 8
5588 025	1	5	5016 840 2	8
56 7 859 5671 071	8 4	7 7	5023 052 3	8
567 47	8	7	5045 582 3	7
5703 797	2	9	5066 174 8	9
5707 204 5727 878	8	9 7	5147 652 8	9
5731 437	2	7	5219 875 2 5225 695 2	8 8
5787 288	8	8	5800 <del>9</del> 29 3	8
5743 645 5866 675	8 1	8 7	5428 474 8	10
Op	88 dGN	•	5460 572	8
			5490 867 1	7
			5 27 859 2	8
•	6 E60 D		5671 071 8 5672 047 8	7
N	lo 563 B		5703 79 <b>7</b> 1	7 9
	LAT +10		5707 204 1	9
	Long 167		5727 878 l	7
T	Ша По Пь	IVA	5781 487 1	7
	-1905 June 3		5787 288	9
Date-	-1909 June 3	Ð	5866 675 1	9 7
W 1 gth	N mb f Ob t	M W d	Op —BB <b>d.G.N</b>	-
486 029	1	6		
4864 919	1	9		
4875 671 4884 779	1 1	8 7	No 569	
5001 1 5	1	•	Lat15	
5009 829 5013 479	2 1	8 7		
5016 840	2	7	Long 53	
5028 052	1	9	CLASS—IVa IVb	
5066 174 5147 652	2 2	9 9		
5219 875	2	8	Date — 1905 June 11 12	13 16
5 25 695	1	7	W 1 gth Nmb f	M n
5426 <b>474</b> 5460 572	2 1	10 7	- 00 0	Wd ning
5490 367	1	7	4868 888 1 488.4 010 9	8
5627 859 5671 071	1	7	4864 919 8 4875 671 2	8 8
5671 071 5672 047	2 2	8 8	4965 107 1	4
5703 797	2	7	5009 829 4	7
5707 204 5707 209	2 2	7	5013 479 2	7
5737 288 5743 645	1	9	5016 840 8	7
	оь — 88	J	5023 052 8 5045 582 3	8
			5045 582 3	6

We lgth Nimb f M. Ob t Wedg	W 1 gth	N mb f Ob t	w g
5053 056 6	5009 829	6	7
5066 174 4 7	5013 479	8	7
5147 ∪52 4 8 5150 863 1 5	5016 340	3	9
5150 363 1 5 5219 875 3 7	5028 052	5	8
5 25 695 2 8	5043 761	1	8
5 00 561 1 4	5045 582	4	7
5800 J29 2 9	5058 056	1	
5426 474 4 9			6
5400 72 2 7	5066 174	6 -	<b>{</b>
5490 867 2 7	5180 757	1	8
5490 905 1 7	5134 (97	1	7
5584 208 1 6	5136 270	1	9
5627 859 3 7 5671 0 1 4 8	147 652	8	9
5671 0 1 4 8 67 0 17 4 7	5150 868	2	7
5 08 797 3 8	5160 554	1	8
707 204 2 7	5219 875	5	7
5727 873 2 6	5228 351	1	6
5731 137 2 6	52 5 695	8	8
5737 288 3 8	5260 561	1	6
5743 645 8	800 152	1	
Obry —86 dGN	5800 J29		6
		1	8
	5394 913	1	7
No 574	5420 510	1	8
	5126 474	5	8
LAT +6	5100 572	8	7
Long 256	5490 367	8	6
	5627 859	5	7
CLASS—I IIIa IIc IIb IVc	5671 071	6	8
Date-1905 June 23 24 28 29 July 1 4	5672 047	6	8
W loui Vmb f M	5687 068	2	в
W lgtl Ob t Wd g	708 797	5	8
4862 023 1 7	5707 204	G	8
4803 883 1 10	571C G 1	1	8
4804 J19 6 9	5727 873	-	9
4875 671 4 7	5731 487	2	9
4913 803 1 8	5787 288	r	8
4.028 511 1 7	5743 645		-
4965 107 2 7 5001 165 5 7		5	. 8
5001 165 5 7	ОЪ	—ss dkv	8

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Catalogue of widehed lines observed between March 3 1904 and July 4 1905

W v 1 gth (E wl nd)	Cg	N mb f p t wh h th 1 w b d	N mb f tm b d	M m t f wd g	W 1 gth (R wl d)	Ogn	N mb f p t wh 1 th 1 w b d	N mb f tm b d	M m f wd
<b>471</b> 7 756		1	1	5	4935 595		1	1	Ι,
4820 593	T	1	1	5	4936 512	l o	2	2	
4827 637	V	1	1	7	4939 868	F	1	1	
<b>482</b> 7 8 <b>0</b> 4	T	2	8	7	4 42 083		2	2	, '
48 1 689	a ∧	2	8	8	496 107	o	68	156	
4859 816	ГP	1	1	6	4965 851	N	1		(
486 029	0	28	55	6	4975 530	T	2	1	•
4862 73		1	1	7	4975 588	F	1	2	(
486 788		18	22	5	4977 833	F	[	1	t
4863 833	F	18	22	7	4978 82	F	2	2	
4864 919	V	41	90	7	1978 785		1	1	(
4865 798		2	2	4	4997 288	F	1	1	(
4866 465	N	1	1	5	5000 O	T	4	6	(
1868 296		1	1	7	5001 165	_	1	1	
1868 451	T	8	4	7	5008 825	T	23	89	7
1870 323	T	9	10	, 7	5009 829	_	1	1	4
<b>4</b> 870 996	NU	2	4	6		TO	75	229	7
1873 440		1	1	4	5011 119	N	2	2	6
1874 97 <b>6</b>	N	1	1		5013 479	TO	21	34	7
4875 G71	<b>v</b>	28	1	5	5016 220		1	1	8
<b>187</b> 6 060	F	8	58	7	5016 840	T	28	6	7
4881 789	v		8	6	5017 782	N	2	2	5
1884 779	'	1	1	6	5018 62)	F	1	1	6
1885 264			1	7	5019 364		1	1	7
1887 187	T	9	11	6	5020 208	T	8	8	6
4887 381	N C	1	1	6	5023 052	T	14	24	8
	F P	1	1	6	5023 872	F	1	1	5
893 030	F	1	1	5	5023 674	r	1	1	6
1901 152	T	8	8		5025 027	T	5	5	7
905 310	] F P	6	6	6	5025 749	T	3	8	8
1 18 808	T	2	8	7	50 8 808	Br	1	1	6
914 70		1	1	5	5029 805	F	1	1	8
915 414	T	1	1	6	5036 645	T	2	2	7
920 047		2	2	6	5043 475		1	1	
921 963	L T	5	5	7	5043 761	T	89	69	5
925 746	N	2	2	6	5048 885		1	1	6
928 511	T	11	18		5044 011		1	2	6

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Catalogue of widened lines observed betwee n Marci 8 1904 and July 4 1905—cont

W 1 gth (B. wl d)	Og	N mb f p t wl h th l w b d	N mb i tm b d	M m un f w d g	W 1 gth (R w1 d)	Og	N b f j wh i th I w b d	N mb f tm b d	M m f w l g
5014 015		1	1		116 914		1	1	<del> </del>
5045 454		7	16	G	5117 071		1	1	8
5045 582	т	78	218	C	118112	M	1	1	5
5058 058	т	8	55	6	5120 50	T	5	б	5
5053 170		8	10	G	5130 548	N	4	4	6
5058 301		1	1	5	51 0 757		1	1	6
5061 882		4		6	132 843		2	1	8
5002 006		4	5	6	133 870	1	1 1	2	6
5062 28	r	11	15	6	5184 0		,	1	C
068 355		4	4	5	5131697		3(	8	6
50 <b>64</b> 244	r	1	1	5	131810		2	50	5
5060 078	σ	17	31	7	195 355	İ	3	2	6
506G 1 <b>74</b>	T	83	232		180 270	r	10	3	6
50f 7 874	σ	5		6	1 36 <del>8</del> 2r	*	1	5	6
5070 165	]	2	2	4	13( 83		!	1	6
070 471		1	1	b	513( )( )		2	2	6
5071 666	T	5	6	7	138 27)		2	_	6
5078 687	1 1	1	1	5	188 518		1	1	6
6079 921	F	2	2		138 090		6	7	6
085 311	T	12	1	7	51 38 800		13	23	5
6085 <b>518</b>		8	,	7	5183 037		1	1	8
085 6C\$		ا د	10	6	5189 189		, ,	11	6
087 104	] ]	1	1	6	189 817		3	4	6
087 289	r	52	99	7	5140 836	O	(	8	6
091 896	İ	2	29	5	5110 5 3		5	9	5
002 058		8	6	6			10	3	7
096 081		1	1		5140 992		4		5
09C <b>2</b> 15		1	1	Ġ	5141 198	Q P	1	6	7
006 857	}	2	2		111 386	0-	4	8	c
101 790	]	1	1	7	5113 288	]	1	8	8
104 204	F	1		- 1	119 701	1	1	1	6
104 614	_	1	1		5149 901		55	119	6
106 628		•	1		5144 081		8	8	7
108 568		2	1		5144 208			2	7
118 298	o	i i	8	1.100	5144 847	0 0	8	3	в
18 617		7	7		5147 652	T	81	65	7
70 014	T	7	7	6	5148 851		2	2	7

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Catalogue of widehed lines observed between Mar h 3 1904 and Jul, 4 1905—cont

W l gth (E wl d)	Ов	N mb f p t wh h h l w b d	Numb f tm b d	M m nt f v, d	W l gth R wl d)	Og	N mb f p t wh h th l w b d	N mb f tm b d	M m n f wd
3149 018		7	1	6	5223 851	F	1	1	6
5149 964		5	7	8	5224 89	σ	1	1	7
5150 363		78	195	7	5224 471	T	4	5	7
5150 525		1	1	5	5225 101	a	1	1	3
51 <b>5</b> 0 <b>78</b> 6	<b>-</b> 0	2	6	8	5225 198	C T F	1	1	7
5152 861	T	4	5	7	5225 °9	F	42	69	6
5156 823	o —	18	27	6	5225 974	C	1	1	7
5157 168		7	8	6	5288 74	T	85	69	7
5157 876		1	1	6	289 13	O	22	45	6
5158 152		1	2	6	5289 99		1	1	5
5160 188	1	4	6	6	5243 526	C	2	3	8
5160 <b>419</b>	0-	11	12	6	5252 146	F	1	1	7
5160 554		13	18	7	5253 205		1	1	7
5161 006			1	6	5253 633	F	1	1	6
5161 358	_	2	2	0	5 55 978	T	2		4
5162 90		2	2	5	57 814		1	1	4
5168 074	0-	9	11	7	5 60 61	o	8	1	6
5168 200	0-	6	6	8	72 171	0	2	2	6
5168 585	0-	1	1	5	5 80 458	0	1	1	6
5164 007		8	18	7	5280 540	ь	1	1	е
5164 404	0-	1	1	4	5 8 576	1	9	18	6
5164 724	FP	1	1	4	529 185	F	1	1	7
5166 454	0 —F	1	1		2.) 95 <b>5</b>	A w ?	8	4	4
5188 079	r	1	1	5	5297 407	0 1	3	4	7
5189 948		1	1	6	5300 152		7	10	6
5194 027		1	1	5	5300 929	l o	8	10	7
5194 216	T	2	2	6	5304 355	0	6	8	5
01 260	T	1	1	5	53 0 20	F	3	3	6
5203 118		1	1	6	822 2 7	F	1	1	7
5 09 94)		1	1	7	58 6 881	F	1	1	5
<b>521</b> 0 059		4	4	6	5931 641	C	6	8	6
5 11 015		2	2	6	5338 517		2	2	e
521 398		1	1	7	5351 261	T	4	6	7
5212 859		1	1	6	5356 270	1	4	ł	ł
5219 875	T	79	280	7	53 8 306			2	7
52 1 928	C	1	1	7	5866 616		9	1 13	8

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Catalogue of widened lines observed between Marci 3 1904 and July 4 1905—cont

W l gth (R wl d)	Од	N mb f p t n wh 1 th 1 w b d	N mb f t m b d	M m t wd	W 1 gth (R wl d)	O gı	N ml f p t n wh h th l w b d	N m; f tm b d	M m f wd
5866 950		1		7	5512 018		4	5	8
5884 883		1	1	6	5512711	T	2	2	6
5393 375	F	2	2		55 4 563	T	2	2	6
5894 889	M	2	2	4	551 <b>4</b> 758	T	4	4	6
394 913	M	2	2	7	5516 950	м	2	2	e
5896 778	N	8	3	8	5517084	м	5	5	5
396 935		3	3	7	55 7 791				
5897 822	r	3	3	7	5530 997	T	8	14	7
5407 820		1	1	8	5532 02		1	1	5
5420 510	м	7	8	7	5532 968		1	1	6
424 761		1	1	G	35 061	F	1	1	6
5426 47 1		82	25(	8	5 <b>5</b> 37 928	M	5	5	6
5482 758	Mn	31	69	ն	55380 5	Mn	9	16	6
5488 259		1	1	Б	5538 526		3	5	4
5188 507		1	1	4	5538 738	F	1	1	4
5447 454		1	1	6	5541 110		1	1	8
5457 010	Mn	8	9		5547 215	ry	4	4	6
5457 701	M	3	3	5	5584 08		1	1	6
5460 572		7	202	8	5 98 524	r		2	6
5461 762		3	8	8	60393		2	_	7
54 02)8		4	5	6	5605 171		4.	c	8
<b>5470 802</b>	¥	1	1	8	5025 541	N	1	`   1	7
5470 888	м	ı	1	8	5620 245		7	11	6
5471 414	T	8	18	8	5626 168		1	1	
5472 916	E	ı	1	G	<b>5627</b> 859	V	79	27	4 7
474 13	7. P	4	11	8	<b>628 867</b>	0	3	8	
5477 901	1	28	5	7	5044 385	T	2	0	5
5178 900		3	8		C46 322	_	1,		
54 9 988		1	1	9	5648 796	T	4	6	6
5 <del>4</del> 82 078		41	94	7	101 9403	1 -	3	3	G ~
5468 374	j	4	4	5	5( 57 607	[ i	4		7
5490 307	T	GO	164	7	5062 374	T	4	1	6
<b>54</b> 90 90 <b>5</b>		8	48	в	56C8 93	v		4	6
5498 709	DF .	9	17	6	5871 071	▼	6	6	7
549469	F	1	1	5	5872 047	j	8	254	7
5504 117	T	9	18	7	5687 063	5	82	249	7

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Catalogue of widened lines observed between March 3 1904 and July 4 1905—cont

W l gtl (R wl d)	Og	N mb f p t n wh h th lin w b d	Numb f tm b d	M n t f d g	W 1 gth (B. wl d)	Og	N mb f p t whil th h w b d	N mb f tm b d	M m f wd
5687 192		1	1	10	5785 952	0	2	8	7
5689 694	T	14	22	8	б 86 19 <b>3</b>	то	1	1	ĺ
5689 812	A.P	2	8	5	5823 910		1	1	в
5698 746	v	14	27	7	5866 6 5	T	19	30	6
5700 402		8	18	7	<b>5</b> 867 785	0	6	26	8
5700 508	O P	8	3	5	5873 486		1	1	5
5702 876	T	1	1	8	5878 015		1	1	
5 08 797	▼	89	76	7	5880 250		1	1	4
5707 204	V	38	75	7	5880 490		1	1	8
5707 265	Г	4	4	Б	892 608	A( )	1	1	6
5708 622	B	2	2		<b>6899 518</b>	r	G	10	8
5712 990	σ	7	7	6	<b>5</b> 900 260	A(w)	4	4	6
5714 380	F	2	2	6	5908 748	A(w)	5	5	}
716 671	T	15	81	7	5916 475	F	1	1	6
5717 728	<b>A</b> .	1	1	8	918 635	A (w )	4	4	G
5719 795	A	2	2	5	5918 773	T	8	4	7
5720 666	TA	Б	б	8	5922 334	T	3	4	7
5727 27	T -V	2	8	5	922 735	A (w )	2	2	4.
5727 8 8		78	223	8	59 865	A (w )	2	2	6
5731 487		78	225	8	5924 040	A(w)	1	1	8
5782 522		8	6	9	5933 238	A (w )	1	1	ь
5737 <b>2</b> 88		82	252	8	5938 27 )	A (w )		6	7
573J 084		1	1	7	5941 845	A (w )	1	េ	6
5749 698		11	17	8	5941 )85	r	3	3	7
5739 873		1	1		942 789	A (w )	1	1	6
5740 195		12	18	7	5944 530	A (w )	1	1	7
5741 088	A.P	2	8	6	59 <del>44</del>	A (w )	_ 1	1	6
5 43 182		7	18	8	59 <b>3</b> 886	T	• - 2	2	6
57 18 410	Í	1	2	8	966 055	TAP	6	8	6
3743 645		46	124	7	5978 768	T	9	18	6
576 479	T	6	7	6	5988 785	A (w )	2	2	5
6265	F	5	10	7	5989 510	A(w)	1	1	5
766 550	T	8	9	Б	5992 218	A(w)	1	1	2
774 250	TA	8	3	7	5999 486	A(w)	1	1	6
776 958	A	1	1	8	5999 920	T A(w)	2	2	6
785 498	F	1	1		6004 095	A(w)	1	1	7

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Catalogue of undered lines observed between March 3 1904 and July 4 1905—cont

W 1 gth (R wl nd)	O gm	N mb f p t n wh h th l w b d	N mb f t m b d	M m t wl g	W lngtl (Rwld)	О Е	N mb f p t wh h th l w b d	N b f t m b d	M n m f wd ng
6005 770	F	1	1	8	6261 816	Т	1	1	4
6007 540	N	1	1	6	62( 9 080	V	2	2	6
6009 580	A (w )	1	1	6	6271 186	r	2	2	5
6012 450	N	1	1	2	6274 170		1	2	6
6039 953	v	9	18	7	<b>6274</b> 870			9	8
6058 912	N	1	1	8	G280 598	A (O)	1	1	4
6057 110		1	1	6	6285 38 <b>4</b>	▼	4		7
6068 080		5		4	6290 427	A (O)	1	1	7
6064 858	T	8	13	6	6298 080	v		8	6
6081 665	▼	9	11	7	62)3 170	A (O)	4	6	6
6085 470	тг		5	3	6296 8⊉	V	3	4	7
6090 42)	F	5	5	4	6303 700		1	1	7
6091 8J5		ı.	5	14	6803 J85		6	6	7
6097 505		1	1	7	GJ06 024	A. (O)	11	17	8
6111 872	▼	9	10	7	68124 (		2		8
6119 740	▼	7	10	7	G327 820	N	2	2	4
6119 97 <b>0</b>	N	2	2		6830 816	o	8	10	7
6126 435	T	10	18	7	<b>6363 09</b> 0	o r	8	J	7
6185 580	7	4	4	6	(8(6 564	1	2	2	7
6135 985	c	8	8	5	6366 07	N N	4	4	•
6150 860	v	7	10	G	6381 88G	N	1	1	
6154 438	N	4	5	5	6892 51		1	1	,
6166 651	0	1	1	4	6 <del>4</del> 05 980		1	1	1
619) 898	V	11	18	7	6150 033	0	1	1	,
6210 895		8	18	7	6455 820	0	ם ס	10	
6216 567		4	7	5	616 784	σ	1	1	4
6217 900		ı	1		6461 897		1	1	۲
6224 198	IN P	1	1	4	6469 050		1.	1	4
8224 715	▼	1	1	8	6469 408		1	1	4
3240 86 <b>3</b>	F	2	2	5	6471 885	0	2	2	
3243 055	v	8	6	7	6475 846		1	1	5
<b>5243 32</b> 0		11	16	9	6482 095		2	2	
8 <b>248 54</b> 0		1	1	10	6483 027	N	1		4
6 52 048	v	10	18	6	6498 180	A (w )	1	1	5
3258 322	T	1	1	8	6494 004	(W)		2	4
3258 927	т	1	1	5	6495 218		1	1	6

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Catalogue of undered lines observed between March 3 1904 and July 4 1905—cont

W l gth (R wl d)	O gm	N mb f p t whi h th 1 W b d	N mb f tm b d	M m unt f wid g	W l gth (R wl d)	O g	N mb f p t whi h th l w b d	N mb f tm b rv d	M m t f wid g
6499 168	F	5	6	7	6648 860		1	1	8
6504 415	A(w)-	1	1	5	6661 820	o	1	1	4
6518 599	F?	1	1	8	6698 918		1	1	5
6554 470	T	2	2	4	6703 820	i	1	1	6
6555 700		1	1	6	6710 570	<b> </b>	1	1	4
6578 090	С	7	11	8	6717 940	0	1	1	4
<b>6574 468</b>		8	5	8	6743 <b>3</b> 81	T	2	2	8
6581 45		1	1	4	6771 310	- a	2	2	6
6598 848	r P	1	1	4	6807 103	F	1	1	8
6599 8 8	T	2	2	6	G815 210	σ	1	1	3
6607 15	]	1	1	4	°840 086		1	1	8
6608 280		1	2	7	6842 945		1	1	6
6625 276		4	4	6	G857 515		1	1	6
6680 270	o	2	2	4	6881 983	o	1	1	5
6647 205		1	1	8	6888 825	σ	1	1	5

NOTES

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1904
          8 Cd tubd 29 D dD pp ddff d th pt (GN)
              4 Ndtb
                                 0 (88)
             5 C df tly 229 B d t gly 281 (GN)
            9 N d t b O (G N)
            10 82 d 285 O d p t p t m (88)
            11 Clt bd 35 lb k lpl n t (GN)
            13 N d t b
                              C (G ፕ)
            14 0 d t 11 285 (SS)
15 N d t b O (GN)
            16 C d t l b t 35 (88)
                    dtb OBghtblbdn 51696 (?) 51685 (m 1 th m t l t t) 51600 d 51575
            19 Cl g tlydt bd 240 It b tt d lt lt ly l InlkOl dd pl m nt b thd t t pl dth b ghtO h w d ml b tn tq t hl g d il t th th pl (88)
           20 N d t b C D d k 240 nd b y d t (GN)
21 C lghtlyd ll d t l t l d d b tw n 240
b y d 240 (SS)
                                  dt lt l d db tw n 240 nd lmb D lk df d bl d t noe
            2 C jm hb k lf tly
                                                       l 242 (G-N)
           28 C lgltlyd t b l 242 D t ff t d n l t l t mb t f h l th p t m ftl p tb tw tl pt ltl lmb (SS)

24 Cl m l b l n 37 d lghtly v d 240 d 24 N tw l th l t B ght b d l t d t 51140 d 5084 (GN)
                                                                                            h ttm t mdt b
                                                                                                                         bl
                                                                                                    10 th w
           25 D kO lghtlyd pl dt d t d 237 1242 O lgltly
                                                                                         dn 24 (88)
           26 C lgltly b t df tly d 287 lghtly l t wh g m t k ff lao (GN)

28 Cd t bd 242 At pl t w b ll tly l At w l d (GN)
                                                                              dn 46 Ddk
                                                                                                          p t 237 242 215 d 246-
                                                                             d dd pl d y lghtly twd 1 t d b t
           20 C lgltly 1 t b d 250 (88)
           30 Cdt bdbtw tlpt g p 248 DlOdpld15At d 250 dlOlpldt lt
                 13A (GN)
           81 C d 250 d ll thf lee t (S)
6 C lFb ght lttl t th f p + 251 lI m ll d t th p t D i (h w d l pl m t t th
l d f b t l i A A l pl m t t tl l t d w l l dwl l w l ghtlyg t (GN)
7 51 B glt b d t d t tlyt bl t l th p t w b d t 48626 d b t lo 2 d 51635 (SS)
8 254 Ol g tlyd t b l D m t d t tlyd l d f loo (GN)
           31 C d 250 d
Ap 1
            9 C dr t gly db tw 254 nd 255 lb tw n 255 nd th lmb d th lg f 255 D l C lghtly l pl dt w d d 255 D d k n 254 d 255— t 251 B lt l d b t Jr 8 d n
          10 Slight 1 ld 1 m t fCb tw n 254 d 25 (SS)

11 I th 1 mb f 254 ll th wi ll m d lghtly i pl dt w d th 1 t ll b gl t l t l p t p t m pl d mply p b tw d il G p f w d ll m t l p l t ftl g b— i (GV)

12 254 B gl t b d t 4863 5 5161 2 5163 5 5687 2 C d b tw d 254 A d 4 B lghtly d c
          13 1b ghtb d l t5858 (88)
          14 254 M y l d blwd db dw b dbtw b dF Sm yb db lw l d lyn
th pt tl g M y ftl d k h p ln n th p t m pp lw g d tl p t At th
th pt (Gh)

15 C d I t b tw th tw b pt f 254 C lghtlyd t bd 261 (88)
                          dn 254 d261 Tl b d d db d ptbtw b dFw b dt b m d m ll b d Th lly b d l p d k l pt d k th n il b db d
          16 Cf tly
          170 ydt babtw th twigpt f 54 D LOd pl dl Ato a (G-N)
          18 254 B ght 1 b t 5438 C d dd k O l ghtlyd pl d (SS)

19 Ol 254 t lpl b tw n h f p t d pl n t 23A

1 tw th h f p t 254 (GN)

20 B ght 1 b t 5438 Oq t 261 l ghtly d n 254 (SS)
                                                    btw nhfpt dpl n t 23At volt d14At d Dlk d
          21 L g p m t th pl f th g p t 266 nd th tg g p t 254 I th l tt b tl C d D h w d (m m t ly) d pl m t C b t 2 nd n D b t 86 A (GN)
         22 D d k pt 266 dwllby lttw d th lmb O dB l d lgltly t (SS)
23 D d k pt 265 266 df g td tn tw dth lmb d k 267 dtw d t Cslightly
267 d l l htlyd pl dt d b tw 265 nd 66 dth lmb Ab ghtl d l
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1904
          24 Cf ntly d 266
t d th pt (GN)
                                                         265 tw ym hbk dg ly
                                                                                                   d pl Ddak
Ap l
                                            l pl
               t gly dbtw 265 d266 ndth lmb l m. lwd g 26
bghtbd ptrum. pt266 bt6222 6247774 qt ff d pt266 (SS)
          25 C t gly
                                                                                                    265 th n 266
         26 C ydt bd 266 d l Od pl dtwd d 28 A D pl m t f q lyh gd dtntm bt w mpltly l tdf m O n l n th d d ft D d k dff l p th t th g l ttl t d (GN)
               d lg n 265
twd d M mmlt b
                                               d 266 N 2651 d pdly h gd pl m t fd k db ghtO
b t 9h 15m lm tq t t 9l 45m (SS)
                                        265 d 266 N 2651
         waam mmit b b t9h 15m lm tq t t9l 45m (SS)

29 5484490 f t 266 C d 266 l1 pl d twd d t l t C lb tw tl l p t f m ggr p 265 268 yd t b d C h w dd ll m t b th d t m ypl d d lp t b tm t t gly p t f p m tl p ly (SS)

30 Cd t b d g p 266 d h w dl pl m t f b t2 A b th l t I 268 Cd t b d h w g n pl d pl m t f b ut2 A t w d l t Th p t m f th dg f th p n m b 266 w d t tly d k th th t f th t f tl p mb All th l k h pl pl d l ttl w g d l ght l f Cn 65 (GN)
Му
           1 St
                      1 fOb tw
                                      th 1 t n wly p t d 266 C
                                                                              ll n 265 dlghtly 268 (SS)
               g tlydt bd 266 B glt C hwd d pl m tt lt f b t23A d h m l td k C hwdd pl m tt d N 265 tth w tlmbth w b ght pt p m n h l l m t th d f b t35A l t th d k C hwd q ld pl m t tl m d t (GN)
           3 270 C d lpl b tw th p t (88)
           4 Od pl dt d 270 (GN)
           5 Sptt mllf b t fwd dl bttl g lth mllg p 268 d 71 w g tly d turbl C t gly d ld pl d m tlyt w d th lt Th t ftl l pl m t l g d t y h t trvl (SS)
           6 Odt bd ld pl d 268 (GN)
           8 Odt bl 271 dd 11 d tw pl 15 Atw l l d nth pl tw l lt In 268 Od pl l g 18 Atw d d I tl nt ftl g Ow l lb glt O d pl d tl m d t lt m l m t Th l tdf ly b t 15 m t (SS)
           9 268 lghtlyd t b d 271 q t 275 y d t b l In 275 C w d d d pl d m y 1 l tw b t t 8h 50m d t 9l 5m th mpl t h th p t
               tw b t t lpl ... t (88)
                                                                                                                t fth.
          10 275 C d wdg dlpl dt db t15 A 268 C
                                                                                        ď
          12 278 Cb t d
                                 d Bthbght ndd 1 Od pl d b t2At ltlst tl d l t lt A
                  yd t bdp m
                                       tl pt (88)
          13 275 1ght 1 C Oth pt qut (SS)
14 F t 1 f C 275 At PA 180 d 246 th pl 1 m lh w
                                                                                                   ddid th h by d k
                    1 (GN)
          16 264 O ydtbdbk dt gly v d (GN)
          19 286 O t gly d (GN)
          20 286 C d (GN)
                   O jdtbl ldpl 183At lt d26At
f loo (GN)
                                                                               d 287 Of tly
                                                                                                        d Oqtqt
          22 285 Cf tly d l t th m p tb tg tly d t b d th d t f ll w g tl p t D pl m t 30 A l t F t l 286 (GN)
          28 286 ( d p t (8 6)
                                    d bl
                                              Ojtbl k dlghtlyd ji dt lt į t m d tn t w t f
           26 Ndtb fOnyfth ptbtf t
                                                               1 f læ (G-N)
           27 291 C l ghtly 1
                                       wdg (SS)
          28 Of tly d 289 291 d 2J t gly

th p mb f 291 d d t tly d k n

292 d f m d t th d (G N)
                                                                egin{array}{ccc} \mathbf{l} & \mathbf{t} & \mathbf{pl} \\ \mathbf{mb} & \mathbf{D} \end{array}
                                                                                1 b f 291 Oth dg f
y d t tly l y l 1 ly d k d
           29 C d bth d f 292 db tw 291 d 292 D d k 292 (88)
           1 N d t b C (GN)
            8 O lghtly tw t d 295 N d t b n n 291 (GN)
           90 d pt 295 Ndtb 296 (88)
           11 295 O 1 ghtly d lb t 296 n d t b 97 O t gly 298 C v d wd g n d 1 ghtly b t (88)
                                                                                     l dd kClghtlyd pl dt d
           12 296 C lightly dibt DkOdpld1At d297 Ct
                                                                                    ly
                                                                                              l t
                                                                                                      p nt (88)
           18 297 D d k O 1 ghtly 1 (88)
           21 30 Of tly d (GN)
           22 299 C d l ghtly 300 g O d pl d 1 5 A t d (S S)
                                                    ltnp † 302 Of bly d lbdbtw ptdk
            5 807 d kCd t bd dlghtlyd pl dt d (GN)
 J ly
            6 307 Of ntly d (GN)
            7 305 d LOdt bd dd pl dt dwll d d pl dp t Algpm th pt D m td t tly d kn dby d pt 305 bt t n 306 (GN)
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1904
              8 Of thy dbtw s05 llmb Abgp the pt8 llmhdd pp of Pm hwld pl mt fb t8 At d O lD Dd kbtw 805 dlmb (GN) 11 Oqut llpt (GN)
J ly
              12 D d (GN)
18 D d (GN)
              15 Olghtlyd pld tfd08 (GN)
              20 814 m dt d film npt yg tdpl m tfd kOw l dt91 dff dld
m dt f m O tl lt d m kg h p l wth O lt d t 05 57 A It w
pdy llt g dl g gf m n d li dff t tl m t fl m n n d ll m tw
b ut78 A I th m p t th w t I t dpl m t ftl d l O t th l f b t 14 A I
tl l t m ftl b dg th p t m y f th d l l ti l t Il j k l O 808
t ng l fO w tw pl (I) d d l m t f b t 1 A t d 818 O
t n ly l tw pl (GN)

28 818 O lgitly d (CN)
                                                                                                 d (GN)
               24 314 A 6084 825 d 1p d 6086 500 w
                                                                                y f nily
               26 819 l kO t p td | l dliAt d 811 Cd t bd D l C t p td pl dl4At l t d df d t th | t l | llyd | l dly m m tt l 18 Of tly d (CN)

28 T w t f 319 O t gly d nd tl d l O d pl dl At l t Th lgltd pl m ti l til m p t tl 14 A m tl l b b dn th t l tl t m t p t f 818 O w d | l dl AA t l (GN)
               29 818 1819 lyf t 1 fC 821 Og tlyd t b l d i gly
D pp d d kl i (GN)
80 881 Of tly d ld pl d l i A t l D d l (GN)
5 324 O l t i fD 826 Of tly d t d l t D d l
D l l d g l (GN)
                                                                                                                                     d N
                                                                                                                                                           f tl
                                                                                                                                                                              1
                                                                                                                                    fit $28 Of tly
Agut
                 6 324 q t 326 Of ntly d t d 1 t 328 Of tly d D d l (GN)
7 824 q t 328 f t 1 fO !) 1gltly l 1 28 O d d ftl 1 t D l l (GN)
                       B28 Of thy l lt lightly lil dt a D yllbt lt dl l (GN)
B28 Of thy l D yd k lt 28 Of thy l D lghtly ll 320 t8 i Of
lltq t t9 d lOpp d dd lyt til t35 At lt t35 lifllOpp
dwnt O t9 8 ll m q t ltf ylghtll m it d t 4 lb th ld pl
m tm t lt b t15 A (GN)
                  8 328 Of Hy 1
               10 324 d 326 1 t 328 f t 1 f C D l 1 330 l f C l t D d l f loo l l
tw th g p ff l th t dw thml (GN)

11 321 q t 326 d l C d 1 l l 1 4 A t d D l l t l y l l 328 C f t l y l D l l t l y l 381 C
t l y l l l t t fm pt 332 C q t D y d l (GN)

18 824 C f t l y d D d l 826 828 l 383 C l t D d l (CN)

14 826 C l k d d l l D l l t l y t l 393 C q t D t (GN)

16 326 328 C f t l y l D l l t l y t l 393 C q t D t (GN)
                16 All ptq i (CN)
                23 38) C d l g
836 C l (SS)
                                                                 aloli lightly lil Dll thillt
                 24 339 C 5 ltbdbl nyl llll llynil ll llClil dliA
pl D ydl ll 6 d mlibbk mil l til
dtb CD t bl (GN)
              1 844 d889 Olginy dip nt (SS)
2 889 Ot gly d d b glt Od pl d 2 At d t p t dd l Od pl d pully t ti p t d th m d t D d k Oth p t qu t (SS)
8 848 nd 844 O d nd D d k 846 O d d d k Ol pl d t d 14 A D l l (GN)
 8 pt mb
                  4 346 Oq tDdktth tfpt (SS)
                  5 846 O lghtly d nd b t (SS)
                  6 946 d 1 Odipl dt 15 At dt tiptit l mg (SS)
                 9 848 f t 1 fO D d k nb th d f p t (5 %)
                10 348 nd 849 O v d nb th d f p t (88)
                16 350 O lghtlyb t tth pt t gly d t p tt tfpt (SS)
17 3 2 Of ntly d D d k m pt dt tft (GN)
19 352 Ob 11 ntly d n pl d d 3 th pl d k O d
353 Of tly d D d k 354 O d D f ntlyd k (GN)
                                                                                                                      d kOd pl d14At d D y l k
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13

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1904
S pt mb
        20 854 C
                   ngly d lg
Oth ptqt (SS)
                                        dak Odapi d 15 A.t d b twn w p t 353 C d
                  ngly
            l g
        22 354 Of thy dltpt ddpldt dDdk (GN)
        23 4 Cf ntly d 356 Cb ll tly d d g p d lightly d pl d b h d D d k thin film t m dt t t h t f m t t d d (GN)
        24 354 C t ly d 358 C t gly d dd k C d pl d 15 A t d D d 1 (SS)
                          d d l htly b t D d k 357 O d ndd pl d b th w y t
        26 356 C t ngly
                                                                                     l pl
        27 356 O t gly
                         d (8 )
        28 3 7 Cf tlv
                        dd kOlpl dlAt l Dd kt tipt 861 Oqut Dd k (GN)
        29 35 d 361 C f tly dt t f p t (88)
                         d t gly d dlpl d07At d d22At lt Tiltt ltd ly df tly 362O d t gly dbthdk dbghtOdpl d14At d thpt fthg p (SS)
        80 357 Cf tly
                        d
Otb
         1 361 Cm hd t bd t
               857 O
                   b tw
         2 357 C f tly
                         d Ddk
                                              dfth t 362 C dbth d fpt D y
                                       m
            1 k (GN)
                        1 g
         3 68 C d
                                  lb tt w d lt 357 d361 O
                                                                d (88)
         4 368 C t gly
                         ddlOdpld14At ltt tm d ft t dD ydk (GN)
         5 863 Ddk O yd tubd Obll tly ddbthbght ddk Cdpl dm tlyt d Th
t gtdpl mnt fdk O85At lhngg y pdly 864 Clghtly ldbt (88)
         6 86 O ym hbk ndlglilyd pl l D ydk 363 Cf ntly d Ddk (GN)
                         d 366 O t gly d l t p t dd k l b htO lghtly l pl dt d 367 d g p l t p td pl d 15 A t d 12 A l t (88)
         7 368 Of tly
            O t gly
        11 868 O lgh ly
                        d 367 Olghtly d dd pl dt d 368 Olgltly b tt valt (88)
        18 368 C dt
                          tbg pt (88)
        14 367 d 368 q t (GN)
        17 3 2 C d d d k C d pl d b th w y 368 C
                                                     d 367 O
                                                                 ddkOdpld15At dd
            lghtly b tt lt (SS)
        18 368 Cf ntl
                        l (GN)
        19 868 C d llghtly b tt d 3 2 Of tly
                                                      d (88)
           B70 C dmtt ly l th bgptdkOdpldl5At d (Algpm
l) 872 d874 Of tly d (88)
        25 8 6 0 d dd l Cd pl d 14 A t d (GN)
6 376 C d m tlyt t f b p t d l t t (SS)
        25 3 6 C
        27 875 q t 376 C d th m ddl fth g p D d k 380 Cf tly
                                                                   d (GN)
                         dm t t gly th l g t p t f 876 A lghtd pl m t t d f dark O 876
        28 375 376 881 C
        29 3 6 Of tly d dd kOd 11 d 15 A
                                               d 381 Ob 11 tly
                                                                 d D d k ll l gth t n (GN)
           381 376 0 l th whlpt g I 376 tw fth p m t h p t df liy (88)
                                                           l ytg
                                  lt Dydl
        31 376 C d d l pl d t
                                                  th hlpt
                                                                 Otl
                                                                      rtq t (88)
                     dt t f 381 dt w t f 383 (SS)
        4 Of tly
 N
    \mathbf{m}\mathbf{b}
                      1 fO 381 383 q t (G-N)
         5 386 f t
         6 383 Of tly
                         d dd kOd pl d15At d D yd k 383 q t (GN)
         7 387 388 Cf tly
                           d (88)
                        d 383 q t (CN)
         8 381 Cf ntly
                         d db tb tw pt dlmb (88)
        11 390 O l ghtly
        12 390 C d
                         pt (GN)
                         d 891 C ydt bd bll tly l bgpth pt dbtw pt dlmblpl mt d mt lt dd ll mt mllm mmt lt 3 A Tw
pt hwdd pl mntt lt l (88)
        14 390 Of tly d d pl d
                                                                                   pt dlmb
        17 C dlghtiybtw 395 dlmb Oth ptq t (SS)
        18 390 d 395 Cq t 391 d k Cd ll d 15 A b tl w y 396 Cb k dd ll d 1 A t d D d k l ng tl g p (G V)
        19 Sp t ll q t (SS)
                  (88)
        21 D
         22 305 Of tly d db k ll l g th
                                                 398 Ob kn 399 Oq t 400 Of tly
                                                                                     d (GN)
         28 399 O d db th b ght nd d k O lghtly d pl dt d (88)
        24 899 Of ntly d 895 q t 684 810 d 6247 774 pp dt fd t th pt pt m (GN)
25 899 Of gly d th whlpt df m dt t Dlk Oth pt qut (SS)
        28 898 q t t8 80m b t t9h 80m d kC t n p tdipl d At lt 399 Cd t b d D y d k p t 895 q t 402 C d d D d k b th p t f th g p (GN)
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1904
                              d At p tbtw 395 d 402 wh th w n ptd kOd pl d 2 A
N mb 27 402 C
                  (SS)
            28 398 1 t 406 0 b k D d k (G N)
29 0 d 398 408 d 407 (S S)
           80 407 Om hbk dbll ntly dD ydkbtwn pt l dth m t th mb CN)
                                                                                                                             th p mb b t
            1 407 C d dbntt ltbtw tltw pt R l yt t l t dd kCdpl dbnt 2At lt lg Ddk 401 C d dd kCdpl d2A lt l t pt (SS) 6 413 C d tfpt Ddkt m pl 414 C d D ydk ddff d 415 q t(GN)
                                d thf l g btw 418 nd 419 Dd k btw 419 d lmb ()th ptq t
           11 419 Ob k db ght Ol pl d D d kb tw 418 d 419 (G V
           12 420 C db tw pt dlmb 419 C lghtly d db t (SS)
16 419 C d d k C l pl db th w y l g t t fgr p (SS
                                                                    lg t tfgr p (SS)
           29 487 C 1 ghtly d (88)
                                                                    dd pl d lghtly p t t d th t l t D d k
           30 439 Ond Fb ll tly d mnypl
                               d the mbee fbth pt ftl g p (88)
           31 439 C
    1905
                        d dlghtly l pl d (58)
d db t 443 b d l g db nt l pl (58)
        y 5 489 C
            9 58 F lghtly b t 157 d 458 F d pl d 08 A t d (88)
           11 419 ylt bd O dr d lg db tn lpl ld fl llAt dD y dk t p t dd pl dlghtlyt d th t fth g up 445 447 447 O d (SS)

12 447 O d dlghtlyd pl dt d 149 450 151 l d ml f m ll d r (SS)

14 153 F d llghtlyl pl l 151 nd 454 F d 448 F db ll tly b 51th l pl d 1 A b th y d l r lgltlyl fl dt d 440 447 449 450 452 f t l fO (SS)

16 155 r d t l pl m t t gly p t 456 F d (SS)
                                   l mb f m ll p t b tw 449 nd 450 D l l ll l g g 1 149 450 d 451
           17 Ob II ntly
                 (GN)
                                                                               d (88)
           18 N NF 1ml I lghtlyd t b l 449 C t gly
           21 159 C d wd (88)
23 155 159 C d lpl (88)
           5 D lghtly l kb tw p t 160 llmb (GN)
28 C t gly l f lso p 110 160 C dF
b tw p t llmb (SS)
                                                                                      ddkFlpldlgltlyt d460
               NB-Nt glgtbgtptN 464 488 507
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        y 8 165 C lghtly d 166 C lghtly l pl dt d (SS)
F b
           10 16 C df tly pt g t gly t p tb tw th tw mb m (SS)
           18 478 Ob knj tblwl lgpt Ddkbtw pt ftlgp (CN) 14 46 d478 |Ot gly dpt dn lpl n (S\P)
           16 178 C d T d t b d
05 A t 9 25 (SS)
                                               d t gly
                                                              t fg l Dl Pd Il dt lt 5A t J 20 bt ly
 18 481 C d pt ld kOlgitivd pl d (SS)

20 481 Ot gly dbt t fg pn pt dl t lghtivt d Ot gl ltmny
ll th lgg pff lætWlmb (SS)

3 487 Cbil ntly dt pt dthg pdtth m pl Dt lyll dhp Cdff d
lb l ll lgthg pd dnth lt dt pt th tl tfthg p (GN)

21 487 Odf dt nyptm tt nglyn t fg l DkOlffll dttl wt lf
g pt dt b t08 A F (SS)

Mh 1 491 th fll wgl bght lth kd lghtlylpl dt lt f (yt g) bb*b
b 5816 790 (F yt g) 5018 629 (F) 4924 107 (F) D D D (t g) C(t g) (SS)

491 Ob ll ntly d lm l f pt D l bll tly bglt t m ll D t d pt
d k d t lyd k t p twl O bll tly d Th bghtp m l t pt
B ht F d pl d60 A bthd t dn td k F d pl dt ltby m t y g fr m
Ot 40 A (GN)

3 490 O d F d d lghtlyd nl dt d t lm l SS
           18 48! O d pt ld kO lgltlyd pl d (S)
            3 490 C dF d d Ightly d pl dt d t l pl (SS)
4 C t gly d t l pl n 490 ndb tw 488 d tl bwh th pt (SS)
6 490 C dF d t gly tm ypl l ghtly l pl dt d t t f g l d pl d b th
w bg pt 20 A t l to 8 A t d C and F d th pt (SS)
8 400 C ndF d t gly tm ypl th g pm t t gly th l g mb F d pl d 15 A t
l t wd d 10 A t d t w t f g p (SS)
            10 491 C ndF t gly er d t nt fgrup d k nd bright F dipl d 1-0-2-t d q t 1 t
                  (88)
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1905
M h 11 491 Ob k ll l g p (C \)
      13 490 O dF t gly l
t n th t l t (88)
                                                                                 ptt
                             1 t
                                            d lghtly d pl d tl l
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                                   l pl
      18 503 Ob kn lk tt d (GN)
      21 504 C dF l pt dlghtlydpl lt d 503 Cl d|F wd F dll d05 At d(88)
                                                                      d t gly tm y pl
                                                             1 t l lghtly b t (SS)
      26 511 O 1 1tly d pl 1 t 1 t 520 O t gly d
                                                        d
Ap 1 28 529 C d dd 1 C 1 ghtly d pl dt d (88)
                  ldkOlghtlylpldt d581Otwtld dmlwybtwntltwlt (SS)
      24 529 C
            d lb t th l g g p ff loo t N I l l mb (SS)
      27 581 Q1 ttl lb k t tfpt (GN)
                               111 (88)
                   d ndbnt t
      29 520 O l tt d d d pl (GN)
      30 53f b ght pt tll p m. hwgd pl m t l t p t (G-N)
     1586 dFt gly d the pndlghtlylll dbtw the pdw tlmb (SS)
 Mν
       2 536 Ck tt d pt (GN)
                                                   (88)
       3 536 O t gly
                       d d th m ll m
       4 586 C df tly t fpt (GN)
       5 586 O IFI II tly d l lightly d pl d b tl w y t f tl lightl l dk tt l t l pl n th f lo t w t l mb (SS)
                                                                   t f th 1
       6 586 Ob ll thy d ttl tp t fth mb fth m pt t0 l ft 101
7 512 O d t lpl th pt 586 O d m ftl mp it (SS)
9 541 C D D D b b b i I b ll thy d th bg i t O b htpll t lg
tl wh l g p D b ght th pt dd l b tw tl m (SS)
                                                                               ft 101 (GN)
                                                                                            lm t
       10 544 Cb ll ntly lndth pt (GN)
       11 C l t p ntm dw y b tw 586 d 545 (SS)
       18 547 Clll 2At lt t lfg p(bt; t fth fthg l) l lghtlyd pl d
d il (t gly dt lpl Dllwdpl l ml fbg ltlA
t ll15At lt BltFwd ll d th m pt2Abtl y r l (1Jg y
b ght t p t m 546 Cd pl d lghtlyb il w y 514 Fd ll d 1A d
       14 547 Ol tt d db l lff d ll (GN)
       17 547 Cd 11 1 1 ghtl b th w y t 1 tt th fbg pt (58)
       19 547 O lgltly d th b I t (85)
                        d nth pt Bgh I'd ll db thwy 1 tlA
       23 547 C 1 F
           (88)
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       27 558 Otw td
           11 (88)
                                                 (G N)
       81 563 Ob 1 dl tt l pt 558 Ol 1
       1 568 O t ly d m ldl f 1 (S)
        8 568 O d b tmddl fg p (85)
       5 565 d 566 C d (SS)
6 568 C l htly dt w t fg p 565 C lgltly l pl l t l d t ldl fg l (SS)
                lt gly mill tt t l fg l dl hily lm tth wilg p (SS)
                  d ptt tlfg p (SS)
        8 563 C
       11 568 C
                   d) tw t d dlmb (SS)
                    dlgltly ttw p t tw t d (98)
       12 565 C
                                                            the pDlC dldpldt dl
                     d the big pt dt 1 th pl the hkt w t fbg pt m m b 0 A (85)
       28 574 0 11
            fmfhktwtfbgptm
       24 571 1578 C 1ghtly l pt (KVS)
28 574 C 1ghtly d pt (KVS)
29 574 C d th pt 578 C lnbth d flt (KVS)
                    d (KVb)
        30 5 4 C
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30th N mbs 1905

O MICHIE SMITH

Dr t Kd ik n l and Madras Obser at ress

## Kodaikanal Observatory.

## BULLETIN No V

## LIST OF PROMINENCES OBSELVED BLTWFLN 1905 JANUARY 1 AND 1905 JUNE 30

The follows of 1st is a continual not first pulls held in Bullet. No II but differs from it is containing not only the profile estill twere could dissually but also those that I we been plot graphed with the spectroscope in I mainly in the hydrogin like C. The spectrolelicon amounts of the strength of the calciumant is described in the calciumant of the suppose of the profile of the strength of the list was plot replied but of observed (for a case). On sentered in the calciumant of the strength of the strength of the strength of the promisence is selected in the attention is called to the first other in the remainded column and the notes.

o eral pichusio in b i wod it fon 1 otla obscivti sit So fa 34 near the tane f u jot nax um the jomine ices; ec in lydrogen acree is a tale very classly in form with those photosi liked i calcim likt. Il i i few ir) ni nees see in ly libron which sie not photographed in cloum and printly anathod reson unit i photo in lod il n wl h are not seen in hyd o en It wuld lower i le u safe without faith i ex onclude that all those ıntıc t plotographed but not seen were ctully bectinly lio ci I recessati tt al nost cut un the t they were oly to fair to le on ignit the bilt back on lolisly vilwith thin cluls But while n the rain the calous allydro n proma necessarioe very closely will all the calous frequently voy m ked differences to lefor i especially in the ontly Tit tickiois momah pret more abuse a tintle photo sophs there the drawin slut in nached the second of the secon faintness tho all it ems not alway to be the se Lh hi f difference botw tl tw classe however is that is a very line number of case the calcium in it excession tla thelylo ex ore contino continuous perlaps hardly express a the ratt a contry later little alt to fal a better In large number of o seath hydrogen promise soons st of an two life jois a film ents and in most fithese cases it is found that calcium; sutly or our litely fills sith it it to s an ill is on due to want of definition i the photographs which in der favourable h v ti finest details of the prominon ces quit shaiply

It may be mentioned that spectrohelio rams of the disc occasionally show pion notic sort adity to a considerable distance inside the limb oithe (1) as an area of very dark flocoid or (2) as an a legs lark than the su rounding area so and cating greater absorption. In this connection refere coming be made to the note for March and when the displaced Cln which was bright beyond the limb or ld be seen on the disc (still displaced) as a dark line.

The leachts given in the tables are neasured from the chromosphere and not from the photosphere. The detail if spectra given in the notes make no claim to being complete and the als nee of any hight has from the list must not be taken as an indication that it was actually absent from the spectrum but only that it was not conspicuous. Time is rarely available for anything like a complete examination of prominence jectrum.

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### NOTES

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19th Ap 1 1906

O MICHIE SMITH

Det Kod ká land Madre Obser at res

# Kodaikanal Observatory,

### BULLETIN No VI

## WIDENED LINES IN SUNSPOT SPLCTRA

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5707 204 7	1	70 204	7	3
5727 873 6	1	5712 996	6	1
5731487 6 5737 88 9	1 2	5727 873	8	
5743 645 b	2	31 487	8	2 2
		5737 288	8	4
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		5978 768	6	1
No. 50/	•	6039 358	8	1
No 594	r	0063 080	6	1
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		6081 665	5	1
Long 345		6085 470	6	1
$C_{LASS}$ — $IVe$	$1\nabla c$	6248 8 0	9	1
		6258 927	6	
Date-1905 July	1417	6261 316	6	1
W 1 gth Wdm	N mb f	6280 598	6	1
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4864 919 9	4	6455 820	6	1
4875 671 7	1	6471 885	7	1
49 ( 047 6 5001 165 8	) 8	64.)8 130	5	1
5001 100 8	3 2	6 <del>4</del> 99 68	5	1
5018 479 7	2	6573 030	9	1
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No	604		W 1 gth M d g	N mab f Ob t
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То	ong 322		5071 071 8	2
Or ars-	-Шa П $o$		5672 047 8 5727 873 9	1
70-4- 1	100K 77 04		5727 573	1
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4875 671	8	1		
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5225 695	8	i	Long 61	
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5671 071	8	1	70 / 1008 / /	
5872 047	8	1	Date—1905 August	<b>4</b> 9
5703 797	7	1	W 1 bill W a	N mb f
5707 204	7	1	M I fm W d 8	Ob t
5787 288	Ð	1	4862 783 6	1
Oh	<b>—</b> 8 5		4809 888 7	1
Ob	r a—		4864 919 7	5
			487 671 8	2
			4920 047 1	1
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			<b>4965 107</b> 6	8
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			0.45 582 7	4
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5045 582	7	1	5156 823 6	2
5066 174	8	2	5100 554 7	1
5087 239	6	ī	5164724 6	1
5184 697	6	2	5219 875 8	4
5186 2 0	•	2	5 25 695 7	4
5148 901	6	1	5238 742 5	1
5147 65	8	2	<b>5428 474</b> 9	Б
150 868	8	2	5460 574 7	4
52198 5	8	2	5477 901 6	1
5 5 695	9	1	5482 078 6	8
5428 474	9	2	5490 867 7	4
5460 572	8	2	5490 905 <b>7</b>	2

W 1 gth	M. Wdg	N mb f Ob t n	W l gth M N mab f W l g Ob t
5503 444	9	1	5426 <del>4</del> 74 9 3
5627 859	8	ъ	5 160 572 7 3
5671 071	9	5	5490 86
5672 04	8	б	5490 905 7 1
5687 0 <del>0</del> 3	5	1	5504 17 8 1
5689 6J4	5	1	5 8 928 5 1
5698 746	5	1	538 O25
5703 797	7	5	627 859 7 2
5707 204	8	4	5671 071 8 3
<b>571</b> 6 <b>671</b>	6	1	5672 047 8 <b>3</b>
5727 878	8	5	5708 797 8 1
5781 437	8	5	<b>57</b> 07 204 8 1
5737 288	9	5	5727 878 8 8
5740 195	6	1	5731 437 7
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57 4 250	5	1	86 675 7 1
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5867 78 <b>5</b>	в	1	Ob —KVS 188
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### No 620

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### Class-IVa IVb IVc IVe

## Date-1905 August 8 11 12 15

4862 029	w	1		រោ	V b W	•	g	Ob	mb t	£
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501       82       6       4         508       174       6       4         508       39       6       2         5140       386       7       1         5148       301       4       1         514       652       7       8         5150       363       3         5156       823       4       1         5167       163       4       1         5160       371       4       1         5163       371       4       1         5129       875       8       3         522       695       8       1	6	023	0			9			1	
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### No 623

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CLASS-IVa IVb

### Date-1905 August 11, 17

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4	862 0	2 }	8	,		1	
4	8619	19	8	,		2	
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5	018 4	79	8			1	
5	01¢ 8	40	8			1	
5	028 0	52	9			1	
5	043 7	61	7			1	
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	800 9		J	)		1	
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	504 1		8			1	
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Sept 1 Of 1	5538 025			Laf +
Series				Love 986
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7737 988				37 37 1
Five 645				77 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Seed 875			4	5009 829 6 1
6089 058			1	
8248 820 9 1				5046 582 7 1
8000 024 8 1 1 5 48 901 7 1 1 6800 024 8 1 1 147 088 6 1 1 1 147 088 6	6199 398	7	1	5066 174 6 1
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## Date - 1905 August 20 21    Table	CIASS- I T	Πδ Ινδ Πα	a  III a	5787 288 8 1
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501 582         C         2         Long 115           5006 174         6         2         CTASS—IVd IVa IVb I           5087 230         6         1         Date—1905 August 27 28           5134 697         5         1         Date—1905 August 27 28           5148 901         6         1         Date—1905 August 27 28           5147 652         6         2         W 1 gth Wa b Ol t         N 1 t           5150 888         6         2         48 1 910 C 1         1           5210 875         6         2         496 107				$L_{AT} + 16$
5006 174         6         2           5087 230         6         1         Crass—IVd IVa IVb I           5134 697         5         1           5186 270         6         1         Date—1905 August 27 28           5148 901         6         2         W 1 gth         M N 1 ft           5147 652         6         2         W 1 gth         M W d b Ol t         V 1 gth           5210 875         6         2         486 1919         C 1         1           298 742         5         1         5009 8 0         7           5426 471         7         2         5018 761         C 2           460 57         6         2         5048 582         2           5482 0 8         5         1         058 05C 5         5         1           562 850         8         2         5067 23J (C 11         C 1           562 1071         8         2         5087 23J (C 11         C 2           567 2047         8         2         5143 901 (C 2         2           567 207 70         5         1         5150 368 (G 2         2           5708 797         6         1         5150 368 (G 2         2 </td <td></td> <td></td> <td></td> <td>Toxx. 115</td>				Toxx. 115
6134 697       5       1       Date—1905 August 27 28         6148 901       6       1       Date—1905 August 27 28         6148 901       6       2       W 1 gth Wd Wd S Ol t       N 1 f         6147 662       6       2       48 1 919 C 1       1         6150 363       6       2       4965 107 C 1       1         5210 876       6       2       4965 107 C 1       1         298 742       5       1       5009 8 0 7       7         6420 471       7       2       5013 761 C 2       2         460 57       6       2       5045 562 C 2       2         5482 0 8       5       1       053 05C 5 1       1         5490 387       6       2       50C 174 C 1       1         5627 859       8       2       5087 23J C 1       1         5672 047       8       2       5143 901 C 2       2         5703 797       5       1       5150 368 6 2       2         5716 671       6       1       519 875 8 2       2         5716 671       6       1       549 877 8 2       2         5731 437       8       1       549 877 7 1		6	2	TONG IIO
5186 270       6       1       Date—1905       August 27       28         5143 901       6       2       W 1 gth       M Wd L Ol t       N 1 gth       M Wd L Ol t       1         5147 652       6       2       48(1919)       C       1       1         5219 875       6       2       4965 107       1       1         238 742       5       1       5009 8 9       7       7         5420 471       7       2       5013 761       C       2         460 57       6       2       5045 582       2       2         5420 471       7       2       5045 582       2       2         5490 367       6       2       5045 582       2       2         5490 367       6       2       5071 174       C       1       1         5697 859       8       2       5087 23J       C       1       1       1       1       2	5087 239	в	1	Orass-IVd IVa IVb I
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5147 652       6       2       W 1 gth       W d 6 Ol t       1         5150 368       6       2       48(1910)       C       1         5219 875       6       2       4965 107       1         238 742       5       1       5009 8 9       7         5426 471       7       2       5013 761       C       2         460 57       6       2       5045 682       2       2         5482 0 8       5       1       058 05C       5       1       1         5627 859       8       2       50C6 174       C       1       1       1       5627 83J       C       1       1       1       5627 83J       C       1				Date-1905 August 27 28
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5147 65 6 d	5866 G75 5 1 5807 785 5 1
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5627 859 8 8	<b>Long</b> 78
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5787 288 8	1	5001 165	8	2
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5138 690	6	1	671 071	9	1
5140 58	6	1	672 047	8	ī
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5482 078	6	2	Lox	7G 59	
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5426 474	9	11	5490 86	6	2
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5477 901	6	2	5672 04	8	5
5482 078	6	~	5708 797	6	2
5400 367	7	7	5707 04	7	1
5490 905	8	5	5716 671	6	1
5493 709		2	5727 873	9	1
5537 928	6	1	5731 437	8	1
5627 859	8	10	5737 288	9	5
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4875 671	7	8			Long 53	
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### NOTES

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l fth mb m (SS)
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22 674 C l ghtly d lpl Cdpl d08Abthwy fth pt dtth t dwt fth Cw ylghtly d 676 C ybgltly d wt f lt Bght Cdpl d05Abtly N d lD (KVS)

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15 714 C leltly d dd ll db thwy pt (SS)
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           18 719 O 1 gl tly
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                                  mill fg l ld lOlpl dt d (Fdpl d1A) (IVS)
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           24 7214 Cl ghtly
          25 722 O lgltly l D d l 724 O lgltly d l btw t hfpt 727 C bghtly dt l t (KV5)

28 724A 727 730 O d O lghtlyd pl dt d 727 t 91 20m d pl lbthwy tth m p nt t 101 20m (SS)
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16t/ June 1906

O MIOHIE SMITH

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# Kodatkanal Observatory.

### BULLETIN No VII

LIST OF PROMINENCLS OBSERVED BETWEEN 1905 JULY 1 AND 1905 DECEMBER 31 WITH AN ABSTRACT FOR LHE YEAR 1905

D t n	d b	H IS~ B	L tt l		H glt	R k
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ABSTRACT FOR 1905

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#### NOTIS

1905

- July 2 Lat + 1 5 W C and F displaced both ways amount in  $\Gamma$  2 A to red and 1 A to violet Na Fe and Mg lines bug t
  - 4 Lat + 12 W Detached f om limb A curved streak proceeding from the middle of it meets limb at Lat + 16 W
  - 10 Weather bad for prominence observations But there was apparently a prominence at about Lat +10  $\Gamma$  on a Ca flocculi photograph
  - 13 Very bright sky
  - 15 The six prominences marked in the list were enclosed by a Ca prominence 60 high and extending from Lat  $-13~{
    m W}$  to  $+5~{
    m W}$
  - 17 Lat 12 W Very disturbed C displaced to red amount in F about 1 A in the whole prominence and 2 A at Lat 12 W Displacement oursously shaped Ds slightly displaced both ways 9h 45m

Displacement in F 25 A at Lat — 13 W and 1 . A at — 10 W at 9h o2m Weather bad for examining prominence pectrum

- 27 Only half the limb was examined on account of bid weather. The photograph was poor but there were probably no other important prominences than those entered here
- 28 Poor sky except at brief intervals
- 30 Very poor weather
- 31 Poor weather

- August 3 The whole of the observations were made through clouds Shapes and sizes approximate
  - 6 Lat + 20 W Very bught metallic C displaced both ways at base —2 A to violet and 1 A to red in F
  - 10 Sky very bught Only a part of the limb was observed and even that through clouds
  - 11 Lat + 33 E Top flows eastwards in three long streamers the lowest one being the longest and going up to Lat + 14 L O displaced (2 A in F) to violet at Lat + 17 L for a short time
  - 13 Bright sky
  - 15 Note 1 Lat + 6 D The Ca prominence extends from near the equator to about Lat + 30 D where it does not quite touch the limb but is 210 high
    - Note 2 Lat + 2 W Rase about 6 broad but detached from limb Ca prominence almost continuous from Lat 11 W to + 4 W and quite different in form from the hydrogen prominence and 150 high
  - 19 Weather bad
  - 20 Lat + 21 W Intensely bright Rapidly changing 316 8 b b b 5018 7 ( rolet s de) 5016 3 and 4924 2 Bright lines —6678 2 D D
  - 21 Lat + 12 W Very bright Was in the same position as the disappearing spot No 623 Bright lines —D D D<sub>8</sub> 5316 9 5276 3 5234 9 5197 4 b b 5169 2 5018 7 5016 3
    - The prominence was hardly visible in Ca
  - 24 Weather bad
  - 26 Only the SE limb was observed in hydrogen on account of bad weather
  - 29 Note 1 Bright sky Heights app oximate
    Note 2 Lat 1 E Arch like in Ca the other end meeting limb at Lat 16 E height of arch 60

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- September 4 Bright sky
  - 12 No visual observations on account of bad weather
  - 14 Only the eastern hemisphere was observed and even that through clouds
  - 16 Cloudy except for a very short interval
  - 23 Observed through clouds Forms and heights approximate
  - 24 Do

- September 27 Lat + 23 L C displaced abou 0 5 A both ways at 9h 35m Displacen ent to v old increased to 1 A at 9h 40m A similar displacement on the ame side at another place at 9h 50m Na Mg and Fe lines strong
  - 29 Note 1 -Lat -12 L An nregular cone about 6 at bottom detached from limb Ca prominence different in form and 50 high Note 2 —Lat + 73 5 W Faint Ca prominence 65 high and extending to Lat + 60 W with heights ranging between 20 and 40

October

- 3 The eastern hemisphere only was examined and even that nior weather
- 10 Observat ons were made through clouds He ghts could not be det rmined
- 11 Tile eastern hemisphere was examined in poor weather western hemisphere not at all
- 16 Lat 61 W Very faint Ca prominence also faint but 95 high with the top flowing botl ways and forming an aich 16 b oad
- 17 Note 1 Only a part of the 1 mb was exam ned in hydrogen and even that through clouds Note 2 -Lat - 35 E Top broad and meets limb again at Lat - 1 E The top of the Ca prominence meets limb at Lat — 41 L also
- 18 Lat + 33 E At 101 25m t p mot limb again at Lat + 25 E C2 prominence arch like and 85 high
- 19 Only a part of the limb was examined and even that through clouds
- 20 Lat + 15 Γ Ve y bright Rapidly changing Sketches made at 91 19 10h 15m and 10h 40 quite different from one another Hydrogen lines were displaced both ways in the whole prominence -greatest amount being 1 J A to ied and 2 A to violet in 1 displaced about 0 5 A to violet No metallic lines
- More continuous in Ca Top meets limb again at I at — 29 W It is also connected to the last prominence in Ca
- 22 Lat + 17 D A low bank with a straight vertical streak at Lat + 17 I 40 high and detached from the main prominence
- 24 Lat o? 5 E Faint Height about 30 at 11h 10m Ca prominence extends from Lat -65 l to -71 L and 890 high
- 27 N to 1 —Lat + 10 E C and F displaced both ways (0 5 A in F) in the chromosphere No p ommence in that position

Note 2 —Lat — 69 It Extremely faint Height more than 60 Ca prominence 2 l roader and 65 high and also very faint

- Note 3 —Lat + 25 W A slanting streak about 25 high separated from the limb by about 60 but connected to the last two prominences in Ca
- 28 Lat 3 5 D Top frint in hydrogen and not visible in Ca Connected in Ca to the top of the last promine ice by a streak about 10 long
- 30 Lat + 4 E Top broad and meets the last prominence. A streak proceeding from the top and 60 high meets limb at Lat + 16 E in Ca

- November 1 Lat 13 E A streamer flows southwards from the top Another short one flows eastwards ın Ca
  - 2 A pa t of the limb was not observed owing to bad weather
  - 3 Note 1 —Observations were made during breaks in clouds Note 2 -- Lat + 12 W Changing rapidly C and D<sub>8</sub> slightly displaced to red Base almost detached from limb and extending to Lat + 6 W at 14h 5m
  - 4 Cloudy with breaks
  - 5 Observed mostly in poor sky
  - 6 The prominences at Lat + 12 and + 7 5 E were both faint with bases however very bright Both were rapidly changing The Ca photographs taken at 9h 54m and 14h 05m differed very much from ea h other and from the sketch made at 8<sup>h</sup> 20<sup>m</sup> Hydrogen and helium lines we e displaced both ways at base — 0 8 A in F at 8<sup>h</sup> 20<sup>m</sup> At 9<sup>h</sup> 45<sup>m</sup> F was displaced 4 A to red and 1 A to violet t the base at Lat + 8 E 66782 D D b b  $b_8$   $b_4$  and 53168 were bright at that position At  $10^h$   $20^m$   $\Gamma$  was displaced 1 A both ways at the base at Lat + 12 E At 10h 10m there were three points very bright near Lat + 12 E
  - / Pas ing clouds

- November 9 Poor weather The limb was not examined between pa 180 and 300
  - 10 Weather bad
  - 11 Lat 1 5 W Rapidly changing Very bright Metallic 5317 0 276 3 D D b b bs b4 bright
  - 16 Note 1 —Tat + 20 E A cloudlet connected to the limb at Lat + 23 E Ca prominence broader both at base and top
    Note 2 — Lat + 27 5 W Very bright Metallic T displaced about 08 A both ways Ds also slightly displaced
  - 17 Lat -25E The eastern end of the top meets 1 mb again at Lat +4E Western end of it flows o er about 7 southwards that portion being broader and 120 high in Ca
  - 21 Observed in vory bad sky
  - 26 Only about three fourths of the limb was observed and that through clouds

### December

- 1 Lat + 3 D Changing rapidly Motallie C D<sub>8</sub> and T displaced to violet amount in F about 35 A
- 3 Cloudy with breaks pa 280 to pa 50 was not examined
- 5 Lat 18 W A long f int slanting strend detached from limb and extending from near the top of the last prominence to Lat - 17 W
- 6 Note 1 Lat + 30 5 E I'wo bught elongated clouds run eastwards for about 6 parallel to limb and are connected to limb only at a point at I at +30 pl.

  Note 2—Lat — 11 5 W Top meets limb again at lat —17 5 W Very bright changing Metallic D D b b bs bs bs bright F displaced to viol t by 25 A
- 7 Note 1 —Lat + 24 L A long cloud 70 high proceeding from its top meets the limb at
  - Lat + 21 o L and extends to I at + 3 L on the other side of the prominence It quite meets the limb at I at + 12 E in Ca Ca extension faint

    Note 2—Lat 13 5 E A long cloud over the typ of this prominence It extends from Lat 8 E where it is 0 high to Lat 17 D where it is 100 high I it is connected to the limb in Ca by a stem 1 broad at Lat 13 5 E

    Note 3—Lat '0° E Metallic Na Fe Mg lines strong Scille soon became too had for the observation of other lines. Comes slightly displaced both ways
  - bad for the observation of other lines O was slightly displaced both ways
- 12 Poor sky
- 13 Lat + 44 W There seemed to be a rederate size I prominence in this position but the form and height were not determinable Seeing bad
- 19 Poor sky
- 20 Poor sky Forms and heights approximate
- 25 Lat 9 2 F A low bright arch with a bright vortical at m at the eastern and I ruptive I displaced 15 A to violet and 1 A to red
- The whole limb was examined in very poor sky Lerms and heights approximate
- Observed in very poor sky from 101 0m to 11h 10m forms and he hts approximate Observed again between 15h 30m and 16h 20m in a fine sky
- 28 Lat 22 I An irregular cone and an irregular rectangular prominence slanting towards each other and meeting at top
- 29 The whole limb was examined but only one prominence could be seen Seeing very bad
- 31 Seeing poor

#### C MICHIE SMITH

22nd August 1906

Director Rolankánal and Madris Observatories



# Kodaikanal Observatory.

## BULLETIN No VIII

## WIDENLD LINES IN SUNSPOT SPLCTRA

No 739 A	( <b>G</b> r 5	5775)	W l gth M N mb f
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			5727 87S 7 8
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4885 264	6	4	No 745 A (Gr 5785)
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4965 107	6	1	
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5066 174	9	6	4875 671 8 2 188 C4 (
5077 562	8	1	4965 107 7 3
5085 668	7	1	50098) 8 (
5087 239	6	2	5013 179 7 1
5130 54 }	G	1	5028 05 9 3
5184 697	6	2	5013 761 5 3
5186 270		3	5015 582 6 4
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5219 87	7	7	5085 841
225 695	8	6	5087 239 6
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5219 875	8 5	087 239 6	4
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5238 742	6 8	5136 270 8 5148 901 0	1
5260 561	1	5148 901 6 5147 652 8	3
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56 1 071	7 6	407 688 8	1
5672 047	7 6	5120 510 8	2
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6039 958	6 2	5703 797 8	8
6068 080	6 2	5707 204 8	8
6199 398	7 1	5727 878 7	8
6243 320	9 2	5 31 487 <b>7</b> 5737 288 9	8
6 93 170	7 2	5 43 645 10	7
6806 024	8 2	6039 958 6	4
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5009 829	7 7	4864 919 8	4
5018 479	8	4868 1 7	1
016 40	7 2	4875 671 7	3
5020 208	6 1	4885 264 7	2
50 3 052	8 4	4918 808 6	1
5045 582	6 6	4928 511 7	2
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501 179	7	7	6210 895 6 1	
5016 340	6	2	6216 567 5 2	
5023 05		8	6230 312 8 1	
	8	3	6240 868 4 1	
5043 761	6	2	6243 320 8 2	
5045 582	G	7	6258 92 4 1	
5053 0 6	6	2	6261 316 4 1	
506 174	8	7	6274 870 6 2	
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5130 513	7	1	COR CO.	
5134 69	6	8		
5186 270	8	2	8000 00H	
5148 /01	6	5	6298 007 4 1	
147 652	7	7	6806 024 8 2	
5150 868	7	7	682 820 4 1	
<b>51</b> C 823	5	3	6380 316 6 1	
5201 260		1	6863 090 4 1	
219 875	7	7	6866 564 6 1	
5225 695	7	8	68 6 707 6 1	
5 38 712	6	3	6471 885 8 1	
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4CO 572 5477 )01 1 )0 367 51 )0 )0 5 38 02 ( 27 853 5( 71 071 567 017 703 7 )7 5707 204 5727 873 731 137 87 288 718 64 867 785	8 7 7 5 7 8 8 7 7 7 8	6 1 0 1 7 7 7 7 4 6 6 0 7	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl Wd g h t  1864 919 8 6  4868 451 7 1  4875 671 6 5  4885 264 6 2	f
4CO 572 5477 101 1 10 367 5 1 10 10 5 38 02 ( 27 853 5 71 071 5 67 017 703 7 17 5 707 204 5 727 873 731 137 87 288 718 64 867 785 300 2CO	8 7 7 5 7 8 8 7 7 7 8 10 6 5	6 1 0 1 7 7 7 4 6 6 7 4 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M N mb wd g h t  4864 919 8 6  4868 451 7 1  4875 671 0 5  4865 264 6 2  4928 511 7 1	f
4CO 572 5477 101 1 10 367 51 10 10 5 38 02 6 27 853 5671 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 300 2CO 5 X18 748	8 7 7 5 7 8 8 7 7 8 10 6 5 5	6 1 0 1 7 7 7 4 6 6 7 4 1 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 February 15—22  W 1 gtl M N mb wd g h t  1864 919 8 6  4868 451 7 1  4875 671 0 5  4885 284 6 2  4928 511 7 1  496 107 6 4	f
4CO 572 5477 101 1 10 367 51 10 10 5 38 02 ( 27 853 5( 71 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 300 2CO 5 X13 748 5918 635	8 7 7 5 7 8 8 7 7 7 8 10 6 5	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M N mb wd g b t  1864 919 8 6  4868 451 7 1  4875 671 0 5  4865 264 6 2  4928 511 7 1  496 107 6 4  5001 165 9 8	f
4CO 572 5477 101 1 10 367 51 10 10 5 38 02 6 27 853 5671 071 567 017 703 7 37 5707 204 5727 873 731 1 37 87 288 718 64 867 785 300 2CO 5 X13 748 5918 635 5918 78	8 7 7 5 7 8 8 7 7 7 8 10 6 5 6 7	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 1 2	LAT — 10  LONG 339  CLASS—IVa  Date—1906 February 15—22  W 1 gtl M N mb W d g h t  1864 919 8 6 4868 451 7 1 4875 671 0 5 4865 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 8 5009 829 8 8	f
4CO 572 5477 101 1 10 367 51 10 10 5 38 02 ( 27 853 5( 71 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 300 2CO 5 X13 748 5918 635	8 77 57 8 8 77 7 8 10 6 5 6 7 7	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 1 2 2	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M N mb h t  1864 919 8 6 4868 451 7 1 4875 671 0 5 4865 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 3 5008 829 8 8 5013 479 7 2	f
4CO 572 5477 101 1 10 367 51 10 10 5 38 02 6 27 853 5671 071 567 017 703 7 37 5707 204 5727 873 731 1 37 87 288 718 64 867 785 300 2CO 5 X13 748 5918 635 5918 78	8 775788777 8106566767	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 1 2 2 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M N mb W d g h t  1864 919 8 6 4868 461 7 1 4875 671 0 5 4885 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 3 5000 829 8 8 5013 479 7 2 5016 340 6 4	f
4CO 572 5477 101 1 10 367 5 1 10 10 5 38 02 ( 27 85) 5 ( 71 071 5 67 017 703 7 17 5 707 204 5 727 873 7 31 1 37 8 7 288 7 18 64 8 67 785 3 00 2CO 5 X13 748 5 918 635 5 918 78 5 923 86	8 77 57 8 8 77 7 8 10 6 5 6 7 7	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 1 2 2	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M N mb W d g h t  1864 919 8 6 4868 451 7 1 4875 671 0 5 4885 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 3 5000 829 8 8 5013 479 7 2 5016 340 6 4 50 3 052 8 5	f
4CO 572 5477 101 100 367 5110 10 538 02 127 853 5171 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 300 2CO 5 X13 748 5918 635 5918 78 5923 86 5966 055	8 775788777 8106566767	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 1 2 2 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M N mb W d g h t  1864 919 8 6 4868 461 7 1 4875 671 0 5 4885 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 3 5000 829 8 8 5013 479 7 2 5016 340 6 4	f
4CO 572 5477 101 100 367 5110 10 538 02 127 853 5171 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 300 2CO 5 X18 748 5918 635 5918 78 5923 88 5966 055 J78 768	8 775788777 8106566767	6 1 0 1 7 7 7 4 6 0 7 4 1 1 1 1 2 2 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M N mb W d g h t  1864 919 8 6 4868 451 7 1 4875 671 0 5 4885 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 3 5000 829 8 8 5013 479 7 2 5016 340 6 4 50 3 052 8 5	f
4CO 572 5477 101 100 367 5110 10 5 38 02 ( 27 85) 5(71 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 300 2CO 5 118 748 5918 635 5918 78 5923 86 5966 055 J78 768 6038 958	8 77 57 8 8 77 7 8 10 6 5 5 6 7 7 7	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 1 2 2 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M N mb w d g b t  4864 919 8 6 4868 451 7 1 4875 671 6 5 4885 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 3 5009 829 8 8 5013 479 7 2 5016 340 6 4 50 3 052 8 5 5029 805 5 1	f
4CO 572 5477 101 100 367 5110 10 5 38 02 127 853 5171 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 300 2CO 5 118 748 5918 635 5918 78 5923 86 5966 055 378 768 6039 953 6063 080	8 775788777 810G55G7C77	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 1 2 2 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M d g N mb w d g b t  4864 919 8 6 4868 451 7 1 4875 671 0 5 4885 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 3 5009 829 8 8 5013 479 7 2 5016 340 6 4 50 3 052 8 5 5029 805 5 1 5032 092 4	f
4CO 572 5477 101 100 367 5110 10 538 02 127 853 5171 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 300 2CO 5 113 748 5918 635 5918 78 5923 86 5966 055 J78 768 6039 953 6063 080 6081 605	8 775788777 810655677776	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 1 2 2 2 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M d g N mb wd g b t  1864 919 8 6 4868 451 7 1 4875 671 0 5 4885 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 8 5009 829 8 8 5013 479 7 2 5016 340 6 4 50 3 052 8 5 5029 805 5 1 5082 092 4 5043 761 5 8	f
4CO 572 5477 101 110 367 5110 10 5 38 02 (27 85) 5(71 071 567 017 703 7 17 5707 204 5727 873 731 137 87 288 718 64 867 785 J00 2CO 5 113 748 5918 635 5918 78 5923 86 5966 055 J78 768 6039 953 6063 080 6081 605 6085 470	8 775788777 8106556777764	6 1 0 1 7 7 7 4 6 6 7 4 1 1 1 2 2 2 1	LAT — 10  LONG 339  CLASS—IVa  Date—1906 Februar 15—22  W 1 gtl M d g N mb w d g h t  1864 919 8 6 4868 451 7 1 4875 671 0 5 4886 264 6 2 4928 511 7 1 496 107 6 4 5001 165 9 8 5009 829 8 8 5013 479 7 2 5016 340 6 4 50 3 052 8 5 5029 805 5 1 5082 092 4 5043 761 5 8 5045 582 6 4	f

W 1 ngth	M n wd g	N mb f b t	W l gth wd g	Numb f b t n
5064 244	4	1	5727 8 <b>7</b> 3 6	5
5066 174	8	8	5731 <b>4</b> 3 6	5
508 341	5	3	787 288 8	8
5085 668	4	1	5748 645 7	6
5087 239	6	6	5867 785 5	2
5088 331 ]			5878 486 5	1
}	4	3	Ob —88 d	G N
719 )		_		
5092 058	8	1		
5096 908	5	1	No 766 (Gr	<b>5803</b> )
5106 623	5	2		•
5106 773	5	2	Lat + 14	
5111 802	4	1	Long 310	
5130 543	8	1		
<b>5134</b> 637	4	2	CLASS— $\mathbf{I} \nabla a \ \nabla \ \mathbf{I} \mathbf{I} c$	LLa IVO
5134 549	5	1	Date—1°06 Februar	v 23—27
5136 270	4	2		-
5140 553	5	1	Wylgth Mydn,	N b f
5143 901	6	4.		•
147 652	7	8	4864 919 7	4
5150 863	6	4	4875 671 7	3
515683	4	1	4885 264 6	-
5160 419	4	1	4928 511 7	1
5168 074	4.	1	5001 105 8	3
178 970	4	1	0f 9 829 6	4
5211 700	6	1	5018 4/79 8	2
5219 875	7	8	5016 340 8	9
5225 695	8	4	50 8 052 8	8
522 9 4	5	2	5082 092 5	1
5288 74	7	4	5048 761 4	1
5239 13	4	8	5045 582 6	2
260 561	5	2	5066 174 8	4
5288 88		1	508 668 4	1
5295 185	4	1	087 39 5	1
5800 1 2	4	1	5180 513 8	1
5300 929	7	1	5186 270 9	1 1
304.8	4	2 1	143 901 4	j.
5331 C11	4 5		5147 652 8 5150 868 €	3
549 (75 5409 339	3	1 1		1
5420 51(	8	1	5156 823 <b>4</b> 5219 875 8	8
5420 810 5420 474	8	8	5225 695	3
5432 J	4	1	5289 7 <b>1</b> 2 8	í
54d8 5)	4	1	54 6 474 9	4
5498 507 P	4	1	5400 572 8	3
5460 5 2	7	7	5490 367 <b>7</b>	3
54 7 901	5	1	5490 90 7	2
5490 86	7	6	5627 859 7	3
5490 J05	5	3	5671 071 8	4
5504 117	5	i	5672 047 8	4
5538 025	5	_	5700 102 4	
5547 21	5	1	708 797 7	4
562( 24	4	1	5707 204. 7	
56278 9	6	7	5727 873 7	3
56 1 071	-	8	5 81 487 7	
567 047	7	8	5787 288 9	
5 00 40	5	8	749 645 10	
5703 97	6	6	5866 675 7	
5707 204	6	6	Оb —8 <b>s</b>	d G N
			- D D	

## No 774 (Gr 5816)

LAT + 6

Long 75

#### CLASS-IVa IVb

Date-1906	March 7-15
	222,010

W	1	gth		M wid i	பை	r	N : b	mb t	f n
	4864	919		8	8			6	
	487	671		4	7			5	
	4885	264			6			2	
	4928	511			7			1	
	4965	107			Б			4	
	<b>50</b> 01	165		,	Ð			3	
	5009	829			7			7	
	5018	479		:	8			2	
	5016	340		;	8			2	
	5023	052			8			8	
	5082	0.)2			4			1	
	5043	761			5			4	
	5045	58≱		(	8			5	
	5058	056		(	(			4	
	<b>5</b> 066	174			7			7	
	5085	608			6			1	
	5087	239			5			3	
	5106	628	778		5			2	
	184	697		•	6			2	
	5186	270			8			3	
	5188	890			4			1	
	<b>514</b> 0	5 8			7			1	
	5118	901			6			4	
	5147	6 2			8			7	
	5150	363			7			4	
	5219	875			7			(	
	522	695			7			2	
	5238	712			7			4	
	<b>52</b> 60	561			7			1	
	5804	35			6			1	
	5318	9 5			5			1	
	5830	748			4			1	
	<b>542</b> 6	471			8			7	
	54°0	572			7			6	
	<b>54</b> 90	867			7			5	
	<b>549</b> 0	905			7			1	
	56 7	85)			7			7	
	5671	071			7			7	
	5672	047			7			7	
	5700	402			5			8	
	5 08	797			6			6	
	6707	204			6			6	
	5724	107			4			2	
	5727	878			7			4	
	5781	497			6			4	
	5787	288			8			7	
	<b>574</b> 0	195			б			1,	
	5748	64			8			7	
		Ob	-	<b>-8</b> 8	(	a G N			

#### No 775 (Gr 5817)

Lat + 0

Long 106

CLASS-I IIIa IVb IIc

Date -1906 M r h 12

<b>W</b> 1	gtl	w	M d	N mb t
4864	919		9	1
4875	671		7	1
49 8	11		6	1
4965	107		6	Ĺ
5001	165		9	1
5009	89		7	1
5043	761		7	1
5045	582		8	1
<b>50</b> 66			ម	1
5180	5 13			1
5184			6	1
5136	270		7	1
5148	01			1
5147	652		9	1
5150			8	1
19	875		r	1
5225	695			1
5800	578			1
<b>542</b> 6			9	1
5 <b>4</b> CO	572		8	1
5490	367		7	1
5490	905		6	1
5627	859			1
5671	071		8	1
672	017		8	1
5737	88		9	1
5743	645		9	1
		Ol	<u>—8</u> S	

## No 776 (Gr 5818)

Lar — 6

Long 88

Crass- I IIIa IVb IVa

Date-1906 March 14 and 16

	3	<b>V</b> (	N mb
W	l gth	) g	b t m
486	4 919	ь	2
487	5 671		2
488	264		1
492	8 511	6	1
500	1 165	ধ	
500	9 8 <b>29</b>	f	2
501	8 479	7	1
501	840		1
502	8 052	8	1
504	8 761	8	1
504	5 582	6	2
			9

sur lash Min	N mb f	W 1 gth.	M n N mab	t
W l gth wd	g b tms	-	wd mag brvt	
066 171 8	2	4928 511	6 1	
186 0 8	1	4965 107	5 7 6 4	
5147 652 8	2 2	5001 65 5009 829	7 8	
5150 363 8 5219 875 <b>7</b>	2	5028 052	8 4	
5219 875 7 52 5 095 8	2	5048 61	5 5	
<b>54</b> 26 474 8	2	015 582	6 9	
5460 57 8	1	5053 056	5 5	
5430 86 7	1	5066 174	7 9	
56 859 7	2	<b>50</b> 87 <b>239</b>	6 7	
56 1 071 8	2	5136 270	9 8	
5672 017 8	2	51 <u>4</u> 0 553	6 2	
5703 797 8	1	51 13 901	6 5	
570 204 8	1	514 652	7 9	
578 / 288 9	2	5150 863	8 1	
5743 645 9	2	5219 875 522 695	8 8 7 8	
Ob —8 8		5 8742	7 5	
		52°C 561	4 1	
		5282 576	5	
No 786 (Gr	5821)	5800 578	8 1	
$L_{AT} + 16$		5800 929	6 1	
Long 313		5804 355	8 1	
		5426 <b>4</b> 74	8 9	
CLASS — $\mathbf{I} \nabla c \ \mathbf{III} b \ \mathbf{I}$	$\mathbf{V} \mathbf{I} \mathbf{V} b$	54 0 572	7 8	
Date-1906 Mar	rch 21	54(1762	7 1	
m 1 M n	n N mb f	490 867	7 6	
W l gth wd	g b t	5490 672	6 1	
4864 919	1	5490 905	7 2	
5001 165	1	56 7 859 5671 071	7 8 7 9	
50098 9	1	5672 0 1/7	9	
5028 052	1	5700 402	6 8	
5045 582	1	5703 797	7 5	
5066 174 5136 270	1	5 07 204	7 5	
5147 6 2	1 1	5727 873	7 7	
5426 474	1	<b>5731 437</b>	7 7	
5460 572	1	578 88	8 9	
5871 071	1	5743 645	8 8	
50 047	1	866 675	7 1	
578 48	1	975 768	6 1	
5 48 045	1	6039 53	6 1	
ОЪ —9 8	8	€ 2 <b>43</b> 320	8 1	
		Ob	SB dGN	
No 799 (Cr	E026 \			
No 788 (Gr	3820 )	No 796	(Gr 5830)	
LAT + 14		La	т — 9	
Long 276		Lo	ng 245	
CLASS—IVa IIc			Ινα Πα Ιν	
Date-1906 March	19—28			
W l gth Mwd	N mb f g b t		006 March 0	
4862 029 8	1	$\mathbf{W}$ l gth	M Nmb wdgb	t f
4864 919 P	- δ	4965 107	4 1	
4875 671 6	4	5009 829	4 1	
<b>4885 264</b> 6	3	5045 582	4 1	

W 1 gth M N mb f wd g b t	<b>N</b> o 801 (Gr 5837)
5053 056 4 1 5066 1 4 4 1	Lat 15
5148 901 4 1	
5147 652 4 1	Long 1/0
5219 875 7 1	O T TT TWY TYT / TYLL TY
5238 7 12 6 1	CLASS—I II IVe IVd IVb IVa
5426 174 7 1	To 4 1000 TE 1 01 4 74
5460 572 4 1	Date—1906 March 31—April 4
54JO 367 4 1 5627 859 4 1	W l gth M N mb f
671 071 4 1	4470 B D W
5672 047 4 1	4862 029 8
5727 873 5 1	4862 783 7 1 4863 833 7 1
5781 437 5 1	4864 919 9 8
5737 288 6 1	4868 451 6 1
Ob —G N	487b 671. 7 3
	4885 264 7 2
	4928 511 7 1
No 797 (Gr 5834)	4965 107 6 1
·	5001 165 8 3
Lat — 17	5009 829 6 4 5013 4 9 7 8
Long 215	5010 40 8 8
O T TITL TYLL TITL	5028 052 8 3
OLASS—I IIIb IVb IIIa	048 761 7 1
Date-1906 March 29	5045 582 7 8
M n N mb f	5058 056 4 1
W l gtl wdng b v t	5066 174 8 4
4868 888 7 1	5087 239 5 1
4861919 9 1	5116 944 5 1 5130 548 8 1
4875 671 7 1	5131 697 8 1
488 264 6 1	5136 270 9 1
5001 165 J 1 5009 829 6 1	5138 690 8 1
5029 052 8 I	140 53 4 1
5048 761 8 1	5148 901 C 2
5045 582 7 1	5147 852 7 4
506( 174 9 1	5150 363 8 2 5 19 875 t 4
5136 70 7 1	5 19 875
5147 652 8 1	5238 7 1/2 6 1
5219 875 6 1 5225 95 7 1	800 929 8 1
5225 95 7 1 5300 578 8 1	426 474 8 4
5426 474 9 1	.5460 572 8 <b>4</b>
5460 572 7 1	5490 86 7 3
<b>54</b> 90 <b>367 7</b> 1	5490 905 6 2 5627 859 7 8
5627 859 7 1	
5671 071 9 1	5671 071 8 4 5672 047 8 4
567 04 9 1	5700 402 8 1
5700 402 8 1 5703 797 9 1	5703 797 8 3
5703 797 9 1 5707 204 9 1	5707 204 8 3
5727 878 7 1	5727 878 6 <b>2</b>
5781 437 7 1	5781 487 6 2
5787 88 9 1	5737 288 8 4 5748 645 8 3
-57±8 645 9 1	
Ob —5 S	Ob SS dGN

## No 806 (Gr 5843)

Lat + 20

Long 107

CIASS-IVa IVb I

Date-1906 April 6 7

## No 813 (Gr 5849)

Lat + 23

Long 44

CLASS-IVa IIc IVb V I

Date-1906 April 8-15

Date—19	9 <b>06 Apri</b> l 6 7	7	Date—1900	o April o-	.19
W 1 gth	M wdg	N mb f b t n	W l gth	M wdg	N mb f b t
4862 029	8	1	4862 029	7	2
4864 91	9	1	4868 838	7	1
4875 671	7	1	4864 919	8	6
4928 511	6	1	4868 451 4875 671	8 6	1
4965 107	4	1	4885 264	6	4 1
5001 16	9	1	4915 414	8	2
5009 829	7	2	4920 047	G	- 1
			1928 511	7	8
5013 4/79	8	1	4965 107	6	6
5016 340	9	1	5001 165	8	4
5028 052	9	1	5009 829	6	8
50 <del>4</del> 5 582	7	2	5013 479	7	3
5053 056	6	1	5016 340	7	8
5066 174	8	2	5028 O 2 502 027	8	4
5085 668	5	1	5043 7: 1	8 6	2
508 <b>7 23</b> 9	6	1	5045 582	7	7 8
5180 543	8	1	50 8 056	6	3
5186 270	9	1	5068 855	7	1
51 <del>4</del> 0 558	5	ı	066 174	7	8
5143 901	6	1	508 341	b	8
5147 652	6	2	5087 23J	6	6
150 868	7	1	5130 543	8	4
	6	2	5184 697	8	2
5219 875			5 86 270	9	4
5225 695	6	1	<b>5188 690</b>	7	1
5238 74	5	1	5140 558 143 901	5	23
5300 78	8	1	5147 652	6 7	6
5426 4 4	8	2	5150 3C8	6	8 6
5160 572	8	2	5156 823	9	Ū
<b>54</b> 0 367	7	2	5161 1)4	8	2
5490 905	6	2	5164 172	8	2
5588 O 5	5	1	5219 875	6	8
5627 P	6	2	5221 928	6	2
6671 071	8	2	522 695	6	4
567 0 <b>47</b>	8	2	5288 742	8	8
5700 402	6	2	5426 474 5460 572	8	8
5703 797	6		5490 867	7 7	8
		2	5490 905	6	6 2
5 07 04	6	2	5588 025	5	3
5727 8 3	6	> 2	5627 859	6	7
5781 487	6 -	- 2	5671 071	7	8
5737 288	8	2	5872 047	7	8
5743 64	8	2:	5700 <b>4</b> 0 <i>≥</i>	5	8
5866 675	7	1	5708 797	6	4
Ор	-ss ddr	r	5707 204	8	4
•,,,,	~~ ~~	•	<b>5727</b> 878	6	6

		22	9		
W 1 gtl		Numb f	W 1 gth	M wd g	N mb f
<b>5731 437</b>	6	6	672 047	6	8
<b>573</b> 288	8	8	00 402		1
743 645	8	7	5703 797	8	3
<b>5786 193</b>	5	2	707 204	8	3
586C ( 75	6	8	<b>5727 873</b>	6	
5867 78 <b>5</b>	4	2	5731 13 <b>7</b>	5	
Ob	— SS dGN		737 288	7	8
			5713 645	9	
			866 G <b>5</b>	6	1
No 820	(Gr 585	<b>55</b> )	Оъ	-88 1G1	1
La	т + 1 <i>6</i>				
Lo	ng 275		No 832	(Gr 58	<b>359</b> )
CLASS-	-IIα V Πc		La	1 + 12	
			Ιo	ng 173	
Date—130	)6 April 16—2	23	ClassT	III 1Vb	$\Pi c$
W l gth	M 1 wdg l	Nimb f b t	Date-1906		
4862 029	7	1	W l th	M	N ml f
4863 883	•	7	TY A VIA		
	Ç.	1		w l	1
4861919	7	5	4864 919	w t	-fu
4875 671	7 7	5 2	4864 919 4875 671		•
4875 671 4885 264	7 7 6	5 2 1		8	4
4875 671 4885 264 49( 5 107	7 7 6 5	5 2 1 1	4875 C71	5 6	4
4875 671 4885 264 49( 5 107 001 165	7 7 6 5 8	5 2 1 1 4	4875 C71 4885 2(4 4928 511 1965 107	<b>Տ</b> 6 Ն	- - 1 2
4875 671 4885 264 49( 5 107 001 165 500) 829	7 7 6 5 8 5	5 2 1 1 4 6	4875 C71 4885 2(4 4928 511 1965 107 001 1(	ა მ ს	4 1 2 2
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₩ i gth	Man. wd g	Numb f	No 842	(Gr 5866)	
5708 9	7	3	T.Am	<b>– 23</b>	
5707 204	7	3	LAT	- 20	
57 7 873	4	2	Tio	ng 5	
5731 <b>4</b> 37	4		110	NG 0	
5737 288	7	6	CTASS—TV	b III IVa	
5 <b>74</b> 8 645	9	4	<b>V</b>		
Op	—88 nd 6 \		Date-190	3 May 6—13	
			W 1 gth	Mn Nmb wdng b t	f
No 841	(Gr 58	<b>65</b> )	486 02)	6 1	
Tu	AT + 6		4864 919	8 5	
			48 5 671	7 8	
L	ong 15		4855 264	6 8	
Class-	-IVb IVa I		491 414	6 1	
70 . 100	7/F 17 O	11	4928 511 4J( <b>5</b> 107	6 <b>1</b>	
Date190	6 May 7 9	11		6 2	
W l gth	M	N mb f	5001 165	8 1 7 4	
14 7 8 277	wlg	b t	00 <i>)</i> 329 5013 179	7 1	
4862 0 9	6	1	016 840	7 1	
1861 919	8	3	5023 0 2	7 8	
487 671	7	2	5018 761	f 2	
4885 264	8	2	5015 <b>32</b>	7 5	
4965 107	6	1	5053 056	7 1	
5001 165	8	2	5060 174	8 5	
5009 829	8	1	085 311	5 1	
5029 052	7	1	097 239	£ 2	
048 61	7 7	3	5129 836	5 1	
5045 82 5058 056	7	1	130 548	3	
5066 174	8	3	5134 697	7 1	
5065 341	5	1	5136 270	7 5	
5087 239	7	1	F138 C90	8 2	
5129 386	·	1	5189 087	5 1	
136 2 0		3	5140 553	5 1	
5138 ( 90	7	1	5143 J01	6 3	
5189 087	б	1	5147 652	7 5	
5140 553	5	3	5150 868	6 8	
143 01	5	1	515f 828	5 1	
511 652	7	9	5219 875	7 2 9 1	
5150 363	7	8	22 695 238 1	9 1 6 1	
515C 823		1	542G 1 1	9 5	
5219 875	8	1	5160 5 2	8 5	
5 874	6	1	5490 367	7 4	
542C # 4	9	3	51J0 905	Ċ	1
5460 572	8	8	5 38 0 5	1	'
54 <del>1</del> 0 67	7 5	8	6°7 859	7 4	
5588 025	7	1 3	<b>୮</b> ሪ71 071	8 5	
56 7 859 56 1 071	7 8	3 3	5672 047	8 5	
56 7 071 5672 047	8	3	6703 97	7 8	
5 03 797	7	2	5707 <b>04</b>	7 8	
5707 204	7	2	5727 873	6 2	
570 201	6	2	5 31 437	6 2	
5 31 497	6	2	5787 288	8 5	
5787 288	8	3	5743 64 <b>5</b>	9 4	
5748 645	9	2	5866 675	7 1	

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No 844 (Gr 5867)	W lngth w	Mn Nmbf dgbt
Lat + 13	5001 165	7 5
I omg 855	5009 829	6 2 7 1
1 ONG 990	5013 <i>1</i> 79 5016 840	1
CIASS—I IIa IIc IIb	( 3 052	7 4
Date-1906 May 15-17	5048 61	6 2
•	5045 582	7 6 9 6
Welgth Mean Nimb f wdg b t	5066 174 5130 548	7 2
4864 919 8 2	5184 697	6 1
4875 671 6 2	5186 270	8 4
4885 264 6 2	5188 090	7 1
5001 165 8 2	5143 901	7 1
5009 829 7 1 5023 052 8 2	51 17 652 5150 868	8 4 7 5
5043 761 8 1	5150 505 5219 875	6 2
5045 582 8 2	5225 095	0 1
5086 174 9 2	5800 578	7
51 16 270 8 2	<b>5800</b> 9 9	7 1
5147 (52 7 2	5126 47 h	8 6
5150 863 7 3 5219 875 6 1	460 572	8
5219 875 6 1 5225 605 6 1	190 867	7 1 7 4
5800 78 7 1	5C27 859 -5671 071	8 6
5426 474 8 2	672 047	8 6
5460 572 8 2	6700 <b>4</b> 02	7 1
54AO 3C7 6 2	708 797	7 2
5627 859 6 2	5707 <b>204</b>	7 2
5871 071 8 2	727 873	6 9
5672 047 8 2	5781 187	° 8
5700 402 7 1 5703 797 7 1	5787 288	9 0 ) 6
5705 797 7 I	5743 645 5860 675	6 2
5737 288 8 2	Оъ В	_
718 64 8 2	00 —s	5 U K Y D
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	No 849	
No 846 (Gr 5869)	LAT	+ 9
Lat + 12	Long	
Iong 305	CLASS—IV	
OLASS—I IIIb IIIa IIc IIa	Date-1906	
Date-1906 May 14-21	W l gth	M Nabi wd bts
Wight M Noftware but n	4862 029	7
	4861 919	8 4 7 8
4863 888 7 1 4864 919 8 6	4875 671 4885 264	7 8 6 3
4875 671 6 6	491 414	1
4585 264 6 4	4928 511	6 2
4915 414 5 1	001 165	8 4
4928 511 5 1	5009 829	6 2
4965 107 6 1	5028 05 <b>2</b>	7 3

1 th	M n wd	Nmb f b t	W 1 gth	M wdmg	N mb
5025 749	7	1	508 239	6	4
5043 761	7	1	120 592	6	1
5045 582	7	5	136 <i>2</i> 70	6	2
5053 056	4	1	5188 690 P	5	1
5066 174	8	5	140 53	5	1
5130 548	7	1	5143 901	5	1
5186 270	8	4	5147 652	6	6
5138 690	6	1	5150 3 <b>6</b> 3	5	4
5148 901	5	1	5219 875	6	5
514 652		5	<b>5238</b> 742	6	3
5150 863	7	3	<b>5426 474</b>	7	6
52198	6	1	<b>5460 572</b>	6	6
5800 5 8	6	2	5490 367	6	6
5426 <b>4</b> 7 L	8	5	5 90 905	5	1
5460 572	7	5	5538 025	5	2
5490 867	7	4	5627 859	6	6
5538 025	5	1	5671 071	6	6
5627 859	6	8	5672 047	C	6
56 1 071	7	5	5700 102 P	5	1
5672 047	7	5	5708 797	6	2
5700 402	7	1	5707 204	6	2
5 03 97	7	1	5727 873	6	7
5707 204	7	1	5781 <del>4</del> 87	6	4
5727 873	5	1	5787 288	7	6
731 437		1	5748 64	8	3
5737 288	8	5	Оъ	—98 IGN	Г
5743 C45	9	4			
Ob	—ss dG1	ग			

# No 850 A (Gr 5871)

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Long 132

CLASS-IIc IIIa IIa

Date-1906 May 24- June 2

W	1	gtl	M wdn	g	N mb b	t
	4864	919	6		4	
	487	671	6		2	\$
	4885	264	6		4	L
	4928	511	6		1	L
	49(5	107	4		Ę	5
	5001	165	8		1	L
	5009	8 9	6		ŧ	5
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	025	49	5		:	3
	5048	61	7		:	L
	045	82	6		(	6
	505	05b	6		:	8
	5066	3 174	6			5
	5088	5 341	5			3

#### No 864 (Gr 5885)

Lat +1

Long 305

CI ASS— $\mathbf{IV}a$   $\mathbf{IV}b$ 

Date-1906 June 8 10 11 15

w	l gth	M wd g	N mb f
48	64 919	7	3
48	375 (71	6	1
48	85 264	6	1
48	28 511	6	1
49	65 107	4	1
50	001 165	8	1
50	009 829	6	4
50	013 479	7	1
50	16 840		1
50	23 052	6	8
5(	25 749	5	2
50	04 58	6	4
50	066 174	6	4
50	085 841	5	1
50	087 239	5	8
5	180 548	7	1

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			455	
W l gth	M wdn g	N mb f b t	W l gth M d	N i t
5134 697	7	1	5219 97 7	3
5136 270	8	1	5126 174	1
5138 690	6	2	10 2 6	1
5148 901		2	<b>5490 36</b> 5	1
<b>5</b> 147 652	6	3	5 38 02	1
5150 368	(	8	5627 95 6	1
5219 875	6	4	5671 0 1 6	1
5225 695	G	1	567 O <del>4</del> 7 C	1
5238 742	6	1	5703 797 5	1
5300 578	7	1	5707 204 5	1
<b>5426 474</b>	7	4	<b>5727 87 3</b>	1
5 <del>4</del> 60 572	6	4	5731 437	1
5490 367		1	<b>5737 288</b> 6	1
5 38 025	6	1	Ор № —С.и	
5627 859	6	3		
5671 071	6	4		
5672 017	6	4		
5700 402	6	1		
5703 79	6	1		
5707 204	6	1	No 874 A (Gr 5	i <b>893</b> )
5 7 873	6	2	_	
57-11 487	(	2	$L_{Ar} + ($	
5787 288 5748 645	7 8	4 2	Long 65	
Ob	—ss dgi		OLASS—I IIa IVb ]	ſVα
			Date—1906 June 2	•
			Date—1900 June 2	U
			Wigth Mwd	N b f
No 87	2 (Gr 58	<b>392</b> )	5009 829	1
			50230 2 4	1
	LAT +4		502 71)	1
т	Long 11		5045 82	1
	TONG II		506C 174 5	1
CLASS	I IV6 II6 IIc	Тα	5087 9	1
			51 k C52	1
Date-	-1906 June 2	4	r1 0 363	1
			5 19 875	1

W 1 gth	M n wd ng	N b	b f
496 107	5		1
5009 829	6		1
5023 052	4		1
5025 749	4		1
5045 532	5		1
5066 171	5		1
5087 239	5		1
5184 697			1
5147 652	Б		1
5150 363	5		1

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Catalogue of widened lines observed from July 1905 to June 1908

~		atogue of a							
W lgth	o	V mb f p t wh h th l w b d	N mb f tm b d	M t f wd g	W l gth	Og	N b f p t wh l th l w b d	Numb f tm b d	M n m f wd
4862 029	С	4	30	7	068 855		1	1	7
4862 783		13	1	7	5064 244	T	1	1	4
4863 833	F	14	14	7	50CC 078	σ	2	8	6
4864 919	v	3	165	8	5066 174	T	59	208	8
4868 451	T	5	Б	7	5070 1 <del>6</del>		1	1	8
4869 652	r P		2	7	5077 62		1	1	8
4875 671	V	45	106	7	5085 341	T	8	15	5
4882 836	F	1	1	7	5085 668		5	5	5
4885 124		2		7	5087 289	T	39	90	6
4885 264	T	29	58	6	088 881 ገ				
4886 859		1	1	7	719 } <sup>P</sup>	N	1	1	4
4913 803	T		ړ	(	509 058		1	1	6
4915 414	T	8	14	7	5096 908		1	1	5
4920 047		4	4	6	5106 628		2	4	5
4928 511	T	22	32	6	5106 773		2	4	5
4965 107	С	39	83	6	111 802 P		1	1	4
4975 530	T	1	1		511° 944		1	1	5
4976 508	7	1	1	6	120 592	T	3	8	5
4977 833	F	1	1	7	5122 299	O	1	1	6
5001 165	r	18	97	8	5122 968	0	16	28	7
5009 829	то	59	183	7	5129 336	ТР	2	2	5
5013 479	T C	32	61	7	130 548	N	16	28	7
5016 220		1	1	6	5194 697		30	55	6
5016 340	T	38	74	7	5134849		2	2	6
5020 208	T	1	1	6	6186 270	F	43	101	7
50 3 052	r	45	114	8	5138 690				Ì
5025 027	T	2	3	8	5138 690		22	38	7
50 5 749	T	6	9	5	5189 087		1	1	4
5029 80	) IF	1	1	5	5140 094		3	8	5
5032 032		8	1	4	11.7%		3	2	7
5048 761	T	41	79	6	140 836			2	7
5045 54	^	1	ł	5	5140 558		15	21	5
5045 592	T	55	1 177	7	5140 992		1	1	7
053 056	T	20	177		5141 497		1	1	7
5058 170	•	l	45	5	5143 901	_	48	94	6
5062 285	m.	1	1	6	5147 652	1	59	214	7
	T	1	1	6	5149 013	1.0	5	6	•

w 	l gth	Og	N mb f p t l l h l w b d	\mb f tm b d	M m t f wd g	W 1 gth	Og	N mb f p t n wh h th l w b l	N mb f tm b	M t
5150 363			52	167	7	869011		1	1	8
51 0 525			1	1	7	125 ∫		1		
<b>515</b> G 823		0-	18	27	5	5391913	м	1	1	8
515 163			1	1	4	5899 675	V	2	8	5
5160 138			1	J	6	407 587	Mn	2	2	8
5160 419		c —	6	6		688 ∫	MIL		2	
5160 551			4	5	7	5409 889	F	ı	1	3
5161 91		σ-	1	2	১	5420 510 J	35	L 6	9	8
163 074		0-	4	4.	5	613	Mn	3	б	8
163 200		0—	1	1	4	5426 471		80	223	8
5164 007			2	2	6	5482 753	M	1	1	4
5164 172		О	1	2	8	5486 802	r	1	1	
5161724		r ?	1	1	G	5138 259		1	1	4
5178 970			1	1	4	5488 507		1	1	4
<b>[201 260</b>		T	1	1	5	5441 <b>4</b> 9	JEP P	1	1	6
<b>5211770</b>		F	1	1	6	460 572		1	184	7
52198 5		T	59	184	7	r461 762		1	1	7
5221 928		0	1	2	6	5477 901	T	8	9	6
522 198		CIL	1	4	7	5482 078		11	19	6
225 635		r	41	94	7	490 867	T	4	18.)	7
5225 97 £		С	1	2	5	54 )0 672		1	1	,
5238 74		T	23	52	G	5490 905		24	44	G
5239 137		σ	4	8	6	498 709	F	2	8	5
<b>52</b> 60 <b>5</b> 01		O	6	8	e	5508 444		1	1	9
5 8 57C		т	2	3	c	5504 117	r	3	3	7
288 389			1	1	5	5587 928	м		5	6
95 185		F		2	4	5538 02 <b>5</b>	Mn	16	23	5
529 955		A (w ) ?	1	1	8	5147 215	rv	1	1	5
5800 1			1	1	4	5626 245		1	1	4
5800 578			12	18	7	5627 859	V	5)	194	7
5300 9 9		r	18	21	8	5671 071	v	60	221	8
5804 355		o	6	13	5	5672 047	В	60	221	8
5818 955		C F	1	1	5	5687 063		3	8	,
5330 48			1	1	4	568)691	T	2	2	5
5331 641		σ	1	1	4	5689 812	A.P	1	1	7
5898 517			1	1	8	5698 746	v	1	1	5

W l gth	Og	N mb f p t wh h th l w b d	N mb f tm b d	M m t wd g	W 1 gth	Ов	N mb f p t wl l th l w b d	Numb f t b d	M m t f w d
5700 402		15	24	6	6090 429	JF	1	2	в
5708 797	v	52	121	7	6119740	▼	ı	2	6
5707 204	v	51	120	7	6126 485	T	1	2	1
5712 996	σ	1	1	6	6199 898	v	4	4	6
5716 671	T	9	14	6	6210 895	1	1	1	6
5724 107	A	1	2	4	6216 567		1	2	5
5727 878		52	141	7	6280 812	N	1	1	8
5781 487		5	141	7	6240 863	Г	1	1	4
<b>5737</b> 288		60	221	8	6243 320		7	9	9
5 <b>74</b> 0 195		8	8	6	6258 7 <b>27</b>	T	2	2	5
5743 64		54	180	8	62C1 316	T	2	2	5
<b>57</b> 66 550	T	1	1	6	6274 870		1	2	6
<b>5774</b> 2 O	TA	1	1	5	6280 98 ]	[ A (0) ]		2	، ا
5786 193	T Or	1	2	5	883 ∫ '	T F		<i>#</i>	<b>l</b> `
5866 6 5	T	25	40	6	6285 884	v	1	1	5
5867 785	σ	11	14	5	6293 170	A (0)	3	5	7
58 3 436		1	1	5	6298 007	r	1	1	
5900 260	A (w )	1	1	5	6306 <b>024</b>	A (0)	6	8	8
5903 748	A(w)	1	1	ļ <b>5</b>	6827 820	N	1	1	1
5918 68	A (w )	1	1	6	6830 81C	O	2	2	(
5918 3	T	1	2	7	6863 090	O F	1	1	4
5923 865	A (w )	1	2	6	636° 564	T	1	1	6
5966 055	T A?	1	1	7	6361 707	N	1	1	6
5978 768	T	4	5	6	( 455 820	σ	1	1	(
6039 953	v	8	11	6	6471 885	σ	2	1 12	8
6063 080		4	G	G	6493 130	A(wv)	1	1	5
6064 853	T	1	1	5	6499 168	F	1	1	5
6081 665	v	2	8	6	6578 080	0 5	4	4	8
6085 470	TF	2	2	5				]	

#### NOTES

1906

January 2 730 C slightly reversed Ds slightly dark (>8)

- 3 730 C slightly reversed near the east end of the group (SS)
- 4 Seeing poor Calightly revers d near 727 and between the spots in 730 (85)
- 10 780 C reversed over the smaller spots (98)
- 11 Seeing poor
- 12 Faculæ to east of 739 C and F displaced to violet over whole group. Over most of the area the displacement am unted to only 0 5 A but in one place it was as much as 1 5 A. There were slight reversals at the same place. D<sub>8</sub> was not visible (55)
- 13 739 C slightly displaced to red near the astorn end of the group (58)
- 14 741 O slightly displaced both w ys and reversed to east of group 768 O reversed 740 O reversed inside the roup and between it and the limb (58)
- 15 40 C slightly displaced near the spot (S S)
- 21 748 and 745 C reversed (G N )
- 22 45 C b illiantly reversed between main spots and D dark (GN)
- 23 745 Ds very dark and sha p ove the small spot (bet veen the two main spots) and a little to the east of it C should reversed on the sm ll spot and in the con showing I)s dark 746 Ds dark between the spots C qui t (G N)
- 24 745 C reversed on a small spot west of the am spot D<sub>5</sub> darl in the same place 746 and 747 C quiet and no dark D 748 C knotted and broken in two places west of the main spot D<sub>5</sub> dark in both places (GN)
- 25 748 C slightly reversed (55)
- 26 745 C faintly reversed and  $D_8$  slightly da k (47 C quiet no darl  $D_8$  750 C reversed over the small spot between the main spots  $D_8$  dark at the same place (G N)
- 27 Poor sky 745 C reversed over the small spots in the centre of the group 750 C strongly reversed over the whole group D<sub>3</sub> dark (SS)
- 28 750 C slightly reversed Ds slightly dark (SS)
- 29 748 C displaced to red about 0 A in F (SS)
- 30 745 C slightly reversed D<sub>8</sub> slightly dark 750 C slightly displaced to 1cd in big spot (SS)
- 31 748 C reversed to east of spot D<sub>8</sub> dark at the same place 750 C faintly reversed and D<sub>8</sub> slightly dark at the same place (G N)

#### February

- 1 750 C slightly reversed and displaced to violet about middle of group D slightly dark 747 C slightly reversed to east of spot (SS)
- 8 750 C strongly reversed (98)
- 4 750 dark C alone displaced to red about 20 A D<sub>8</sub> dark in same place (G N )
- 9 755 C reversed over almost the whole group very brilliantly over the umbra of the principal spot and at the eastern end of the group Ds dark over the east and west ends of group (SS)
- 10 755 C knotted and eversed all along the smaller spots D dark O quiet and no dark D. over main spot (G N)
- 14 764 C reversed both on east and west sides of spot very strongly at on point 762 C reversed near spot dark C slightly bulging both ways between spot and limb (SS)
- 15 764 C quiet no dark D 755 Ds slightly dark to east of spot (G N )
- 16 I souls round 755 very bright continuous spectrum (SS)
- 17 766 C displaced both ways and brilliantly reversed between spot and limb Ds slightly dark at same place (SS)
- 18 764 C quiet no dark D<sub>8</sub> 66 C brilliantly eversed in several places and knotted between the spots of the group D<sub>8</sub> dark except at east of group H brilliantly reversed 767 C faintly reversed D<sub>8</sub> slightly dark (G N)

L obruary

- 19 ,60 B C reversed H brilliantly reversed (SS)
- 20 764 quiet 766 C knotted and faintly revoised D dark (GN)
- 21 760 C brilliantly reversed near the small dots between the spot D<sub>3</sub> very dark and sharp at ame place but diffused and only slightly dark at oth 1 part c the plo p (GN)
- 22 /64 I displaced to red over a large rea amount small a little to outlie ist of spot gradually increasing along a line passing nearly through the spot fill it is at he a maximum of 1 A so e distance to north west of spot 766 C displaced to volet about middle of group also sheltly revised (SS)
- 24 766 C slightly rev reed over whole group (SS)
- 26 Cl udy 166 C slightly reversed to east of main spot (55)
- 27 766 Crus ensud botween spot and limb (85)

March

- 2 7 0 Ost ongly revised all round the spot 771 O eversed lark (slightly haplaced to i d and Ds slightly dark to east of spot 7 2 O reversed lark Odi placed (0 5 A in F) to red or spot D3 dark between spot in l limb (55)
- 3 .71 Cln tied and reverse 1 Ds dark all along the group 772 Ds dark madway between spot and linb C faintly reversed at the same place (G N)
- 5 772 Crovers lover a wile iren—very tron ly on the very small spots in the middle of the going and also some ditains to the cast of the roun. On the small spots dark C was slightly displaced to violet. (SS)
- 7 7 3 C ev reed near spot 174 ( reversed near spot lark C slightly displaed to red to the west of it (SS)
- 8 74 (knotted and laintly reversed east of the spot D slightly durk in the same place (GN)
- 9 774 O reversed ov a wide area round the spot—very stron by close to spot on east and west side 7 to evers d and dark only hely displaced both wave non-middle of group /7 C reversed into a moderately bright streak iib ut long some distance to east of the group where there was no visible spot but where the spectral body and shows very bright fleecile. Dad k and sharp at the same place (55)
- 12 7/1 (sh htly displaced to red to west of spot 77 (novement over the companion spots (SS)
- 13 7 1 and 776 quat 7.5 Croversed Da dark n the san plus ((N)
- 14 //4 (slightly displayed to ed to east of spet /7 Croversed and I) dirk to west of spots 776 C very brilliantly reversed on the spot (55)
- 10 7 4 770 78 Oquict 7 Creversel D3 dark (GN)
- 16 85 O reversed all round the spot 780 C revers down laculæ near the spot (55)
- 18 747 C quiet Da lightly dark to cast of group (GN)
- 19 782 Gr received a spot and limb 784 (displaced limitly to vill tabout the control of the group and limitly new red at the same place of the group and limb (55)
- 20 78% quot 794 C laintly reversed on both sides of the pot  $D_8$  dark in the same place (G N)
- 21 78 ( nev read over several places—v ry strongly on umbra of main spot and about the middle of the group Ds diller in latter pistion. JO ( iai the reversed at the middle of the group. At a point while the was no jot I was displaced 1 A to violet. The spot is his lam shows only shall floculi at this joint. (55)
- 22 786 D<sub>8</sub> tark e st of spot C than in the same place 88 C reversed and dark C slightly displaced to red t the west of the spot C bulliantly reversed west of the small spot leading the group 1/8 very dark in the same place 70 D<sub>8</sub> dark but C quict 796 D<sub>8</sub> dark C knotted (G N)
- 27 797 C reversed about the middle of the group darl C slightly displaced to red about the same place D<sub>8</sub> dark over almost the while group (>S)
- 29 788 C reversed near spot very strongly a little to cost of it (85)
- 31 790 C reversed to the east of the spot 801 C reversed on the small companion spots (SS)

Aprıl

- 2 80° The hydrogen lines displaced (about 1 A in F) to violet over a large area and slightly to red about the same place 807 C strongly reversed and dark C slightly displaced to red near the w st end of the group 80¹ C inversed to west of group (trongly close to it) and displaced to red (1 A in F) (8 5)
- 4 801 hydr gen lines displaced on spot (about 0.5 A to rod and 1 A to violet in  $\Gamma$ ) also by about 1 A to ied lose to the spot O strongly reversed near latter position (8.5)
- 6 811 C reversed and I) dark about the east end of the group (88)
- 7 813 C kn tted and faintly reversed Ds dark (GN)
- 8 813 81 29 C strongly reversed and D<sub>8</sub> dark near west en 1 of group 91 48<sup>m</sup> reversal of C viv strong over the whole space between the spots nothing on the pots 91 3<sup>m</sup> D D b b b<sub>8</sub> b<sub>4</sub> 316 190 (1 e) 5018 690 (Fe) 1924 107 (1 e) also reversed b<sub>8</sub> strongly Reversals nostly to west of main spot and slightly on it Be ersed part alghtly inclined to the dark line 10<sup>h</sup> 0<sup>m</sup> D<sub>8</sub> dark o er the whole group both on and o taide the spots 10<sup>h</sup> 15<sup>m</sup> D and C bight over umbra of main spot 10<sup>l</sup> 22 dark F displaced over whole group to red by about 1 A 10<sup>h</sup> 25<sup>m</sup> D dark only to w st of spot 10<sup>h</sup> 40 displacement of F confined to one point to west of spot amount as before (S 5)
- 9 806 dark O slightly di placed to ied at east extremity of spot no ieversil of O and no dark D 813 (broken and ieversed west of the south spot D3 dark west of the group only 816 O broken and slightly iever od D3 dark 918 quiet (GN)
- 10 813 hydrogen lines di placed to violet (15 A in I) Da slightly dark at west end of group (5 S)
- 11 816 C reversed between the spots (SS)
- 12 813 juset (GN)
- 14 819 C reversed and dark C should displaced to violet near west spot (55)
- 17 813 Creversed 819 Crev rscd and darl C sli htly displaced to red Taculæ at position angle 55 Creversed (88)
- 18 820 O faintly reversed west of main spot (GN)
- 19 519 O lightly reversed ever whole froular region near spot 520 8h lom O reversed near spots—struckly tapoint near the centre of the group Ds shiftly link at the latter polition. O slightly displaced to red near eastern is a pot 9h 30. O displaced slightly to violet over wide near near the spots 9h 33. amount of displacement 1 A in F near east end of group (55)
- 21 Scorng bad 820 C displaced slightly to violet near spot at 81 1 m. The displacement soon displacement (5 S)
- 25 820 831 832 Creen el near all the group (SS)
- 28 8 2 O rover (d a 11) da k close to main spot O also reve sed over the faculæ to the east of the spot 834 (85)
- 29 931 O reve sed dari O al httly displaced to red near orat or l of group 832 O strongly rever d dari O a splaced to red to east of main spot and close to it ( reversed over whole g o n of farlie near ost limb (55)
- 80 831 C very faintly reversed between the two man spots. Ds dark and drift used over the same place.

  (C N)
- May 1 882 O dightly displaced to red between the two big spots (55)
  - 2 8d2 O slightly reversed ne r spot O revers d over faculæ at 1 osation angle 255 (b 8)
  - 4 882 Oknotted and faintly reversed to east of spot D did and diff and at same place (GN)
  - 5 841 C reversed near the spot 842 C strongly reversed and D<sub>3</sub> dark to the west of the spot and close to it (SS)
  - 6 842 Cr versed and Ds dark in the middle of the group (58)
  - 7 841 (quiet 542 C brol on and reversed east of the spot and all along the group D dark 845 C knotted and slightly reversed Ds slightly dark (G N)
  - 8 841 C slightly displaced to red ov r a large a sa near the main spot 842 C reversed over the whole group dak C slightly displaced to violet at the east end (\sigma \circ\)

May

June

- 13 846 C brilliantly reversed and D<sub>3</sub> da k over almost the whole g oup dark F displaced 0 8 A to violet about the middle of the group 842 C displaced to red some distance to east of the spot (SS)
- 14 844 C strongly reversed and D<sub>8</sub> very dark o er almost the whole group 846 C reversed and D<sub>8</sub> dark F displaced about 0 5 A to red (SS)
- 15 844 C reversed near spots 840 C reversed in the middle of the group (SS)
- 16 Both spots in group 846 observed for widened lines at the same setting (S 5)
- 17 Both spots in group 844 observed for widened lines at the same setting 844 O reversed and broken 846 O strongly reversed on both umbrae more strongly on the western one (SS)
- 19 846 C reversed near spot dark F displaced 1 A to red at a point near the middle of the group 849 C reversed between spot and hmb (SS)
- 20 846 C eversed near both the spots and dark C slightly displaced 843 C brightly reversed between the first two spots and also between the second spot and the limb Dark C slightly displaced in both places (K V S)
- 21 846 C reversed and dark C slightly displaced to violet between spot and limb 849 C reversed and D<sub>8</sub> slightly dark over whole group (SS)
- 22 Seeing poor 846 and 849 C slightly reversed near spots (88)
- 23 Seeing poor 850 C reversed and Ds dark betwe n spot and limb (SS)
- 24 849 C brilliantly reversed at the east end of group dark F displace 1 1 A to violet 850 C very brilliantly reversed and D dark over the whole group H also very strongly reversed Dark F displaced 1 A to red ove a lage a cancar the east end of the group (55)
- 25 854 O slightly reversed and dark O slightly displaced to red near the spots—strongly near the cent c of the group—dark O slightly displaced to red near the same place—(S S)
- 26 849 C to n and dark C displaced about 1 A to 1ed Ds dark (G N)
- 27 849 C broken (G N)
- 28 849 C slightly reversed and D slightly dark near spots (S S )
- 29 849 C faintly reversed in several places 855 C faintly reversed and knotted (G N)
- 2 850 A C brilliantly rever ed just to east of the umbra of the spot knotted and reversed between the two parts of the group 8 0 D dark (GN)
- 3 85' C faintly reversed (KVS)
- 5 361 C faintly reversed (GN)
- 8 861 C broken and knotted and slightly displaced to violet at one point (G N)
- 10 866 C reversed over almo t the whole group (SS)
- 11 864 O broken and knotted in places D faintly dark all along the group (GN)
- 20 8 1, Orcversed (55)
- 21 8/1 C slightly thinned between the two spots 869 C quiet (G N)
- 25 8/4 C strongly reversed east of main spot dark C displaced to violet on the spot and to the west of it (8 8)
- 27 877 C brilliantly reversed and D dark close to the east spot of the group (SS)
- 30 880 C broken near the small dots east of the big spot 877 C knotted and broken between the spots of the group (GN)

#### C MICHIE SMITH

24th November 1906

Du ector Kodarkánal and Madras Observatories

<u>—</u>1907

# Kodaikanal Observatory.

## BULLETIN No IX

LIST OI PROMINENCES OBSERVED BLIWEIN 1906 JANUARY 1
AND 1906 JUNE 30

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### NOTES

#### 1906

- January 5 The whole limb was exam ned in very bad my their was pra tically no observation
  - 6 Lat 12 W Very bucht Er prive C was displaced both ways at several places in the promi ence
  - 7 Note 1 —Lat 64 5 L A vertical streak about 10 high with another about 25 high near it detacled from the former and from the limb Note 2 —Poor sky
  - 8 Note 1 —Lat 19 E Met lice Rapidly changing At 9 hours 15 minutes the prominence became much shorter and the base me e continuous
    - Note 2 —The so ith west quadrant was examined in poor weather
  - 11 Lat + 12 5  $\Gamma$  Very bright and n etallic. C and D<sub>8</sub> slightly displaced to violet over the whole of the prominence
  - 12 Seeing was alternately poor and fair in the forenoon and good in the afternoon
  - 14 The 1 mb was not examined between position an les 200 and 00 on account f clouds
  - 15 Lat + 29 W Bright B oad at top There was a faint extension of the pro ninence as far as Lat + 23 W
  - 19 Note 1 Lat o E 14 broad at base in Ca | the chromospheric layer was ib ent from 10 ition and le 91 to 92 the gap appearing ery black
    - Note 2 —Lat 35 W Top slightly broader and slantin westwards. Ca prominence was 2 broad at base
  - 20 Lat -9 D The prominence consisted of tagmentary louds. Changing 1 pidly. The following the foll
  - 24 Note 1 —Lat 4 D Lower part bright the rest of the promine see mainly consisting of irregular streamers was faint
    - Note 2 —Lat 36 W The Ca pro n lence was su nounted by a streak parallel to limb making the total height 35
    - Note 3 -Lat 26 W A slanting Ca st eak passed thro gh the top and met limb at I at 23 W
  - 25 Note 1 —Lat + l D A faint cloud connected to h b by a slender streak In Ca bight 120 light and connect in to himb broader than in Hydrogen
    - Note 2 lat 15 5 k Upper part detached from the lower and floating at an elevation of 100 to 150 the lower ports n of the programme not rising above 30. Very taint in Ci
  - 26 Note 1 —Lat + 10 E Slant ng eastwa ds with a short strent flowing northwards from the top
    - Note 2—Lat + 16 W In Ca the prominence was 20 broad 30 hi h from lat + 3 to + 19 W and 20 from + 19 to 29 W
  - 27 Note 1 —Lat 55 5 D There was a streak runnin southwards from the top b n l n, down and meeting the limb at lat 62 D
    - Note 2 —Lat + 20 5 W There was a longish cloud near the western end of the main prominence but detached from at and from the limb
  - 29 Lat +20 E More continuous in Ca Na and Mo lines b 10ht at base
  - 30 Tat + 44 E An apparent dark hole in the prominen catlat + 13 E There was a faint extension of the prominence as far as lat + 40 E
  - 31 Lat + 32 5 and + 23 F Changing lapidly Sketches made at 9 hours 5 minutes and 10 hours 45 minutes and a photograph taken at 8 hours 31 minutes differred v ry much from one a lotlier
- February 1 Note 1 Lat + 38 E A very taint cloudlet about 60 high was observed over the lower prominence at 10 hou s 30 nitutes. It was strong in Ca and connected to the haso by a slender stre!

## February —contd

- 1 Note 2 Lat 12 5 W I wo streaks meeting at top A long faint Ca cloud 40 high at the southern end and 55 at the western was floating over this prominence
- 2 Int + 10 E Two of the Caphotorraphs slowed the prominence as 130 and 120 high respectively The forms in the two differred from each other and from the sketch in hydrogen
  - Note 1 —I at +53 +38 5 and + 2 D I no three prominences were unmounted by a very faint slonder at eak 1 0 light and conjected to the limb at Lat +57 D
  - Note 2 -- Lat + 15 5 W Very faint Slantin northward. There were a few short detached Custraks between the tops of the last and the next prominence.
  - Note 3 —I at +3 W C1 promine ce )5 high 22 broad at bas and connected to the last prominen e
- 4 I t + 38 W A cloudlet qu te dot ched t om the linb in hydrogen at 10 l ours 25 minutes

  Au but corrected to it and also to the top of the last prominence in Ci at 9 hours 17

  min tos
- 5 N to 1 I at 6 L The top ext ided so ithwards in Ca ali nost meeting the prominer ce at Lat 1 I
  - Note 2 -Lat 2° W Double Very bright metaltic the only bright lines observed vere b b b<sub>8</sub> a d b<sub>4</sub> in which howe er the whole promine is was visible
- (Note 1 -I at + 0 L I here was a bright verta al streak in the middle 1'0 high a Ca Note 2 —Lat 1 l I ha nent l Broad at top broader in Cathan in hydrogen A Ca steak from the eastern and of the top reached as far as Lat 1' L
- 7 L t + 58 L Detiched from h ib the lower half of the prominence was eval and was about 2 broad the upper pointed and slanting northwards
- 8 1 at + 27 1 There was a straight v rtical column at the top of the prominence n Ca makin the total leight 55
- 9 Note 1 1 at + 61 1 I wint fragments y and detached from limb. In Creen needed to limb and more continuous
  - Note 2 —Lat + 18 5 I | I here was a low extension of the prominence for about 2 on each side of the base
  - Note —I at +28 W Shuting northwards—more so in Ca than in hydrogen Ca prominence 2 broad it at base and 35 high
- 10 Note 1 1 at + ( W Top extended southwards for about ( in hydrogen and 10 in Ca Base 4 broader in Ca
  - Note > I at +2 5 W Top connected to tlat of the last prominence by a Ca streal A si allar streak extending northwards and bending down touched the limb at Lat + 37 W
- 11 Note 1 I at + 1 5 and + 7 W In the photograph (8 hours 37 minutes AM) the Ca rromi ionee extended to + 7 and a streak from the upper part passed through the next p ominence and mot the limb at I at + 16 W
  - Note 2 —I at + 27 W Connected to the last prominence by a faint streak
- 12 Lat + 13 W lop spreading both ways with an extension to the south meeting the limb at lat + 7 W
- 13 Lat +25 W lop very broad and spreading both ways meeting limb ream at I at +16 +30 and +34 5 W about 3 broad in C1 at the last position
- 11 Note 1 Lat 23 E Faint in Ca metallic F displaced 1 A to violet at 8 hours 10 mi utes orthern end of the top flowed northwards and met the limb again at Lat 11
  - Note 2—Lat 24 5 W A faint cloudlet issued from the top towards the south In Ca i similar cloudlet appeared on the opposite side. The chromosphere was slightly elevated for about 1 to the west of the prominence
  - Note 3—Lat + 10 W Connected to the last prominence by a streak Form very different in Ca the photographed prominence being at least 6 minutes high (at 8 hours 40 minutes Au) and reaching the limit of the pl te
  - Note 4 Lat + 19 5 W F displaced 1 A to violet over almost the whole prominence which was rapidly changing in form It had entirely disappeared at 9 hours 55 minutes nor was it seen on the Ca photograph (8 hours 40 minutes)

# February —contd

- 14 Note 5 —Lat + 45 W A streak detached from the limb Ca prominence consisted of two streaks both joined to the limb and m eting acl other at top
- 17 Note 1 —Lat + 15 E Top very faint and almost detached from base the latter w s bright and  $\Gamma$  was displaced in t both ways—about 0 5 A to red
  - Note 2 Lat -8 E Cons sted of two streads parallel to lmb the lower one being close to it
- 19 Note 1—Lat +73 E This was a longish cloud detached from 1 mb in hydrogen but connected to it at two plac s in Ca
  - Note 2—Lat + 37 + 3 and + 30 E Ca promi enco somewhat different in form and 180 high There were several at each a proceed in from the C prominence the longest of the normalization that the contract of the normalization of the normalization of the normalization.
- 22 Note 1 -- Lat 49 E Southern end very fait slanting southwards and meeting the next pominence at top
  - Note 2 Lat —47 5 W A slender streak slanting southwards with a bright rectingular patch about 2 broad at top 3 broad at his 11 Ca
  - Note -Lat + 1 W Slant n north ards About 1 broad (ccpt near b se Very strong in C
  - Note 4 —Lat + 11 W Base broad and bright The est of the promienc was a narrow streak slant generated
- 23 The whole limb was samined in poor weather
- 24 Lat + 72 F Three streaks meeting one another at a height of 50 and forming a single promine co above that height Stron in C
- 25 Observed during breaks in clouds
- 26 Do do
- 27 Note 1 —Lat + 2 E lop sha p and slanting northwards A faint streamer about 70 high extended enstwords from near the top Chicinosphere was slig tly elevated for several degrees on each side of the prominence
  - Note 2 -Ob civel during breaks in clouds

#### March

- 2 Lat + 40 W Slinting outhwards Thi all pear d to be a stie inner in Ca. about 12 long flowing from the top of this prominence and over the last
- 4 Note 1 Lat 8 E Taint filament 1 a treamer about 4 long flowed southwards from the tor 1 broad and 40 high in Ca (8 27)
  - Note 2—lat + 1 W Intensely bri ht spikes C slightly displaced to red at Lat +1, 5 W
- 5 Lat + 12 + 15 and + 19 W Metallic No 1 ( Mor line ory bright C sheltly displaced to red at the base of the provinence at Lat + 12 W
- 10 Note 1 Tat + 40 F Faint Top 1 http brighter than bose A Constitution ennected the base to the top of the last prominence and another Ca streck connected the top to the top of the net prominence. Lewer half of prominence not found in Ca 130 high in Ca
  - Note 2 —Lat + 2t W Slanting northwards There was a streak about 12 long proceeding northwards from the top
- 13 Note 1 I at 10 E Cha g ng Surmounted at 5 hours 4 minutes by a streak about 8 long and par liel to imb
  - Note 2 —I at 43 5 L Bught Filamental A short faint stronger proceeded south words from the top
- 15 Note 1 —Lat 8 5 E B ght continuous slanting so thwards with a very short streamer flows g northwards from the top
  - Note 2—Lat + 23 W Bright continuous A streamer about 6 long and resalled to limb flowed southward from the top the so there end of it was connected to the chromo sphere at Lat + 28 W by a stread running right across the main prominence
- 16 Lat + 22 W Bright n hyd ogen faint in Ca Ca prominence extended 3 further south and the extension was strong
- 18 Poor weather
- 19 Lat + 3 W Bright metallic iapidly changing. Valle Mg lines bright. C and Ds slightly displaced both ways.

March

- 20 I at +29 L Slanting eastwards Ca prominence formed an aich 35 ligh and meeting limb at I at +2) L and +21 E
- 21 Note 1 Tat + 20 E Slanti 1° northwards  $\Gamma$  displaced both ways t the base 1 A to red The top of this and the prominence at Lat + 32 E were connected by a Ca streak

Note 2 - Seeing poor

- 23 Note 1 —Tat 83 and 82 W Iwo bight verti al p lla s the space between the upper pa t of which was filled in with fainter matter
  - Note 2-I at + 18 W lop broader It was connect d to the prominence at Lat + 42 5 W by a Ca streak
- 24 Lat + 37 L  $\Gamma$ ant alghtly slantin eastwards. Lop slightly broader than base Tree like in Ca
- 25 I at + 31 and + 27 I Meeting at top A streak about 8 long proceeded northwards from the top in Ca Ca prominence 70 h gh
- 26 Lat + 30 I Slanting northwards Caprominence stonled to I at + 44 E at top and was 45 high
- 2 Seeing poor
- 28 Ihin curus on sun
- 29 Sceing bad
- 31 Note 1 Tat + 30 E Biight slinting northwards Ca promin nee extended further north at top and could also be traced well into the disc of the sun
  - Note 2 Lat + 14 5 W Bending southwards at top I we short bright vertical streaks near base

April

- d Prominences were not observed in hydrogen Weather bad
  - 6 Scoing poor
- 10 Note 1 I at + 2 1 The lower part was bright and 90 high the upper part very faint and about 60 The Ca prominence was a slanting co e uniformly strong and 120 high
  - Note 2—I at +6 l Paint I wo ery faint Ca streaks p occeded northwards from the prominence the upper one meeting the limb again at I at +10 F The prominence was note continuous in Ci than in lydrogen
  - Note 3 Lat 14 L Very faint A Cr streak from it mut the limb again at 1 at 7 l
  - Note ! Lat 32 I About 19 broad at tol Tiec like the sten was very bright I unt in (a
  - Note 5 I at 7 W | 1 here was a very faint cloudlet near the western end of the top but detached from it
  - Note C—Lat + 10 W Very bright changing rapidly (displaced slightly to red and D<sub>8</sub> to violet. The prominence was 25 high at 9 hours 13 minutes. Soon after there wis a slanting streak from the top maling the total height about 35. At 9 hours 58 minutes at measured 15 in height as when first seen and had become loss bright.
- 11 Note 1 1 at + 20 1 Top broad and extended eastwards ov r about 8 Strong both n Ca and hydrogen
  - Note 2 -I t + 16 F Broader at top C and Ds slightly displaced both ways at base
  - Note 3 I at 7 E 1 hoto raphed in Ca not observed in hydrogen Changing The prominence was quite different in shape and 60 high at 9 hours 21 minutes
  - Note 4 —I at -35  $\Gamma$  Paint in Ca and hydrogen. The tops of this ind of the prominence at Let -29  $\Gamma$  were connected by a faint streak
  - Note 5 —Lat 29 W Bright A faint slanting strip 120 high proceeded from near its top in Ca
  - Note 6 lat + 22 W A short streak proceeded northwards from the top in hydrogen and both northwards and southwards in Ca
- 12 Note 1 —I at 62 L Slanting southwards Ca prominence had a short streal proceed ing eastwards from the top
  - Note 2 —Lat 19 W About 2 broad but detached from limb Slanting westwards Ca prominence was 100 high and extended to Lat 2 W

Aprıl

- 13 Note 1—Lat 3 W About 1 broad but detached from limb arregularly shaped Rapidly changing
  - Note 2 —Lat + 4 W Iwo Ca st eaks 110 high proceded f om near this point to the top of the last prominence
- 14 lat + 24 5 W Lowe part bright about 20 high and con ected to the top of the last prominence by a faint streak above the prominence there was faint slender vertical streak
- 15 Let + 33 W A streak bra ched away from the prominence at a height of 30 and extended as far as Lat + 20 W
- 16 Note 1 —Lat + 3, E Sumo inted by a streak about 0 long
  - Note 2—Lat +8 W Broad at top fint filamental 0 high i Ca at 8 hours 11 minutes. The Ca extension was much longer in a later photograph
- 17 Note 1 —Lat + 19 L Broad at top with 2 treak 7 hi h c tending abo t 7 in hydrogen but continued to the prominence at Lat + 33 L n calcium
  - Note 2—Lat 43 5 E Bright top bload with a faint streak connecting it to the limb at Lat 40 E
  - Note 3—Lat + 30 W Surmounted by an inegular strak 15 long. The base extended to Lat + 9 W as a low elevation. There was a very bright spot surn ounted by a filmy cloud in the Ca photograph at Lat + 30
- 21 Note 1 —Lat 9 W Cr Top broad and bent towards the prominence at Lat 15 W
  - Note 2 Seeing poo ery bad when observing the south west quadrant
- 23 Note 1 —Lat + 30 D A streamer about 6 long extended northwards from near the top
  Ca prominence d fferent in form and 90 high the 1 pper 30 of which was faint
  - Note 2 —I at + 20 I Slanting no thwards Ca promin no was d Morent in form
  - Note 3 I at + 1 L Tree like Connected to the 1 st prominence in Ca Base extended 4 further sorth in Ca
- 25 Lat + 31 D Tee like Cop extended to lat + 10 l Northern end of the top was bright and dense
- 27 Poor sky
- 28 Lat + 30 W Top extended southwards as a bright streamer as far as Lat + 23 W and with a faint entimulation fo 3 further south. In Ca it reached the limb at Lat + 18 W
- 29 Note 1 —Lat 20 W I arge tree lile Cr prominence more continuous and 90 high A C streak connected this to the top of the next prominence
  - Note ? —The observation was ten n ted by clouds
- 30 Poor weather

May

- 1 Poor weather
- 3 The obse vation was mide during breaks in clouds
- 4 Note 1 —Lat 25 5 T In Ca a f int curved streak proceeded southwards from the top making the total height 60
  - Note 2 —I at 74 E Double one being close to the top of the other but detached from it and from the limb
- 8 Note 1 —Lat 51 W A slanting cone There was a faint patch on the west side Note 2 —Let + 66 W There was a faint streak above the top of the main prominence but detached from it and almost parallel to the limb
- 9 Tat + 13 F This prominence was a cloud about 5 long and connected by a faint streak to the limb at Lat + 13 L The lower part of the cloud wa 60 above the limb
- 11 Seeing poor
- 12 Lat +30 5 E Top broad A Ca streak connected the top to the small prominence at Lat +20 5 E
- 13 The olservation was made mostly through alto cumulus cloud
- 14 Passing cirrus and cumulus clouds

May

- 18 Note ! —Lat +87 +83 +79 and +7 E Very faint and detached from the limb A C cloud tretched ac oss the four prominences and was connected to the limb at Lat +86 W
  - Note 2 Lat 21 W Lupti e T was displaced I A in the whole prominence At 9 hours 25 minut s it vas only about 30 high and connected to the prominence at Lat 2 W
  - Note 3 —Lat -18 5 W Very strong both in hydrogen and Ca metallic Na Mg Te strong even through clouds
  - Note 4 Lat + 31 W A Ca streak assued from the prominence and met the limb at Lat + 41 W
- 19 Lat -13  $\Gamma$  A Ca arch extended northwa ds from the top
- 22 Lat + 11 I Top far t and letached Buse ery bright even r a poor sly I displaced at everal places—greatest a nount 3 A to violet and about 2 A to red
  - Ds also di pl ce l both ways Na Mg Te lines very strong A cuived Ca streak 30 hich ran up to the north from the base
- 23 Lat + 0 W fhe Ca prominence extended 4 fu ther south a dastreak from the top reached latitude + 20
- 25 Note 1 Lat 14 W A (a streak e tendin northwards met the limb at I at 6 W Note ' I at 30 W Cone ll ( Slanting northwards There was a dak patch in the prominence in ar the base I he top was as broad as the base in Or
- 27 Note 1 I at + 30 E the tops of the and the prominence at I t + 13 E were connected by a Ca stread passing through the intermediate one

  Note 2 Poor weather
- 28 Poor weather
- 30 Weather unfavourable

June

- 1 Note 1 —I at 4 6 W A faint slantin streak from the top made the tol height about 60 I ominence slightly larger in Ca
  - Note 2 -I our sky
- 3 Note 1-I it -5 W Ci Detached from limb Nearly connected to the base of the last prominence by in irregular streak broken at several places
  - Note 2 —Olordy with short breaks Only about three quarters of the limb was examined
  - Note 1 —T at + 30 I Ca Dets ched from limb the bottom of the prominence being 40 if ove the limb
  - Note 2 I at | 10 and | 1 L A load with its bottom 110 and top 150 from limb float do ei these prominences
  - Note 3 —Lat + 16 + 19 and + 2° W Surmon ited by a stieck about 10 long Clanging. The streak disappeared at ) hours 30 min ites. Ca photo raph showed a low bank from I at + 13 W to + 20 W and a prominence 3 broad and 70 lugh with a dark patch in the centre at I at + 23 W
- 10 Lat + 1 W Faint filamental tree lile In Cr the top extended northwards bending down and meeting 1 mb at Lat +
- 15 The whole limb was examined twice
- 20 The observation was made hur redly during breaks in clouds
- 28 On photograph very poor Weather bad for visual observations
- 29 Weather bad

#### J EVERSHED

25th April 1907

Ay Director Kodankanal and Madras Observatories

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## Kodatkanal Observatory.

#### BULLETIN No X

# LIST OF PROMINENCES OBSERVED BETWEEN 1906 JULY 1 AND 1906 DECEMBER 31

WITH AN ABSTRACT FOR THE WHOLE YEAR AND REMARKS ON THE GENERAL DISLRIBUTION OF THE PROMINENCES IN LATITUDE

This list is a continuation of that published in Bulletin No IX and contains all the prominences that were recorded visually as well as those photographed with the spectro heliograph. The visual observations were made with the 3 prism I vershed spectroscope attached to the 6 inch Cooke refractor using the C line. The photographs were taken in the line H of calcium. The image forming lens of the spectro heliograph is a Cooke photo visual objective of 12 inches apert ire, and 20 feet focus, the image is therefore about 2.8 inches (58 millimetres) in diameter. Under good conditions the photographs show all the details which can be recorded visually and in general there is a remarkably close agreement between the drawings and the photographs not only in the general form and height but also in the minute structural details. When prominences are photographed in calcium which were not recorded visually. Ca is entered in the remarks column, but it must not be inferred that these prominences were composed of calcium vapour only without hydrogen, so far no clear case has been recorded of a calcium prominer ce without hydrogen or of a hydrogen prominence without calcium. There is however, some evidence of variations in the relative intensities of the calcium and hydrogen lines in the prominences.

Owing to the great intensity of the calcium lines it usually happens that more prominences are recorded on the photographs in a hazy sky than can be seen in the C line

No photographs were obtained after December 18 owing to the dismantling of the old roof covering the siderostat which supplies light to the spectro heliograph

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## REMARKS ON THE DISTRIBUTION OF THE PROMINENCES IN 1906

During the first half of the year the general distribution in latitude of all classes of prominences was very much the ame as in 1905 there being two regions in each hemisphere where prominences were specially numerous separated by a narrow zone where they were almost absent

The positions of the zones of maximum activity in the period January 1st to June 30th were at latitude + 25/30 in the northern hemisphere and 15/25 in the southern. These are practically the same is were observed in the previous year.

The zones of secondary maxima in high latitudes show however an increase of 10 in latitude as compared with 1905 being situated between parallels +70/75 in the northern hemisphere and -75/80 in the souther. The zones of minimum activity into vening between the high latitude and mid latitude prominences also advanced from latitude 55/60 in both hemispheres to +60/65 in the north and -65/70 in the south

The strong development of prominences near the equator and in mid latitudes which became evident in 1903 and has continued since that date appears to be correlated with this advance of the high latitude zones towards the poles and the year under review is of especial interest as marking the culminating point in the pomine ce period when the high latitude zones finally reach the polar regions and prominences are seen at the position angles of the poles themselves

In the years preceding 1894 a similar sequence of events took place culminating in the final dissolution of the polar prominences at about the epoch 1895 0

The second half of the year is characterised by a great reduction of activity in most zones but mainly in the northern zone between the parallels + 15 and + 35 which up till June had displayed by far the greatest activity of any region on the sun Pola prominences are still shown but greatly reduced both in number and size

In the following abstract tables are given showing the monthly quarterly half yearly and yearly frequencies in the two hemispheres. It may be remarked that some portion of the general reduction of activity shown after the month of May may be apparent only being due to the less favourable condition of the sky for observation during the latter half of the year. Excepting in the latitude analysis in deriving the mean frequencies per diem no allowance has been made for partial observations or those which are considered defective from the presence of thin cloud. Thus on 21 out of the 274 days of observation the sun's limb was not completely examined and probably there are many others particularly in the second half of the year when owing to the presence of thin cirrus cloud only the brighter prominences were recorded

If allowance is made for the partial observations the half yearly frequencies work out as follows —

Fifty one metallic prominences were observed during the year They were with one exception confined to the sunspot zones and were far more numerous in the northern hemisphere than in the southern. The following table gives the mean and extreme latitudes observed for the 50 ordinary metallic prominences.—

	N mb dd	M Lttd	Dt m. Ltud
No th	38 12	$\begin{array}{cccc} + & 19 & 8 \\ - & & 0 & 0 \end{array}$	$\begin{array}{ccc} +1 & +32 \\ -6 & -28 \end{array}$

The exceptional metallic prominence was observed on May 5 in latitude — 76 and was 70 in height. In general these prominences are small and very bright seldom exceeding 30 in height. The bright lines observed in their spectra were those of sodium in a nesium and some of the enhanced lines of iron

Large Prominences — Thirty four prominences exceeding 2 in altitude were recorded during the year 18 in the northern and 16 in the southern hemisphere. The greatest altitude observed was on May 16 in latitude — 78 W. In the calcium photograph this prominence could be traced to 350 above the chromo phere. Another on May 19 reached 240 in calcium at latitude + 80 E. On Tebruary 19 a large prominence in the mid-latitude zone of activity (lat + 33 E.) reached 180 in calcium, but no others were recorded exceeding 160 and no great eruptions were recorded.

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#### VOTES

- July
- 9 Lat 59 E A bright slender streak 20 high with a faint streamer flowing southward from the top
- 10 Lat +44 + 465 + 495 + 51 W A Castreak about 30 high and parallel to limb pa ses across these four prominences
- 12 Note 1 —Lat 6 E Very faint On prominence is 30 high and extends to Lat + 2 D and is 35 high at the northern end
  - Note 2 Lat 18 5 E No prom nence in this position but F was displaced 1 A to red and 0.5 A to violet  $D_3$  lso was slightly displaced both ways 49211 b b b; 5316 8 D and D were b ight At  $8^1$  37<sup>m</sup> the displacement almost completely dis appe red but there was a sharp vert cal stre k 25 high in ts place. At 91 48 it was a faint prominence 15 high and about 0 5 broad
  - Note 3 —Lat + 3 5 W A cloud flort ng above limb with its top brighter than the base It extends as far as Lat + 11 W in Cr
  - Note 4 —Lat + 17 5 W No prominence in this position but C was should displaced both
- Top bends down and meets limb at tle base of the last prominence 25 Lat +36  $\mathbf{E}$
- Augus+
- 2 Note 1 —Lat + 84 E Base is alghtly broader height 60 and the top nearly meets limb acam at Lat + 76 E in Ca Ui per part faint in hydrogen
  - N to 2 Lat + 42 5 E Ca prominence is 30 high and a streamer flows northwards from its top Faint in hydrogen
  - Note 3—Lat + 19 D Fop flows in both directions but more towards east 90 high in
- 7 Note 1 Lat +10 D A long bright cloud about 8 long 75 high at the eastern and and 150 at the southern
  - Note 2 —Lat -85  $\square$ I aınt An arch extends northward fro a this position meeting the limb at Lat - 5 E
- A short streamer proceeds southwards from the top
- 9 Lat + 42 E Ca A streamer flows northwards from the top The prominence was photo grapled on a flocculi plate
- 12 Lat +28 W Top flows northwards and meets that of the next prominence
- 15 Note 1 —La + 48 E 100 high in Ca lop of the Cap ominence meets limb again at f at +59 E and also meets on the other side the top of the next prominence
  - Note 2 —Lat 48 W A cloud about 4 long and 75 high proceeds westwards from above this postion It meets limb at Lat — 42 W in Ca
- 29 I at + 8 W A bright cone with a faint extension proceeding from the top I aint in Ca
- 30 Lat + 44 5  $\Gamma$  Slightly slanting eastwards. Not found in Ca. Ca. prominence is on the other hand a streak 60 high and slanting northwards
- 31 Lat 69 W A cloudlet connected to limb by a very slender streak Oa

- September 2 Note 1 Lat 26 W A short streamer proceeds westwards from the top It meets limb agam at Lat -18 W m Ca
  - Note 2 —Lat 6 5 W 30 high in Ca but it is narrow except near base displaced slightly to violet at several places
  - 3 Lat 4 W A short bright vertical jet detached from limb C displaced 15 A to violet
  - Very faint Both slant southwards On prominence covers 6 Note 1—Lat 41 — 44 E both is narrow at top and 120 high
    - Note 2 —Lat +32 W Faint Ca prominence is 35 high and a streak flows northwards from its top till it nearly meets the next prominence
  - 8 Lat +34 W Fork like at top A streak from the top meets base at Lat +30 W in Ca
  - 10 Note 1 —Lat + 46 E Ca prominence 45 high and has two short streamers flowing north wards

- September 10 Note 2 lat | 41 E Broader at top Ca prom nence 50 high and hends northwards at —contd top
  - 11 Lat + 44 L A Ca streak runs across it and meets limb at Lat + 38 and Lat + 46 E Another short Ca streak at top
  - 14 I at + 45 5 L Very faint Sla ts northwards. On prominence about 45 high and proceeds nearly as far as the top of the last prominence.
  - 15 Note 1 —Lat + 49 E C A cloud about long connected to limb by a slender slanting strock
    - Note 2 Lat + 16 E Surmounted by a hort streak is longer and passes through the top of the last prominence in Ca
  - 17 Lat 13 —2 C Ca prominence quite different in form 1t is a lon—aich 40 high with a slanting col min 60 high at the southern end
  - 24 Lat 4 L Slants southwards The height was about 60 at 10 15 when the seeing was better
  - 26 Lat + 47 E 9 high in Ca A str al from top meets the limb at Lat + 55 E in Ca
  - 27 Lat +4 L On prominence J high and short streamers flow both ways from the top
  - 28 Lat 54 W Connected in Ca to prominence at Lat 51 W by a streak

October

- 1 Lat -59 W Double the taller on being detached from the other and from the limb
- 2 Lat 26 5 W From this prom nonce two sticame s flow northwards one from its middle and the other about 6 long from its top
- 3 Note 1 —I at 42 o I A slanting cloud 100 in virtual height narrow at base the base being 40 away from limb. Only a faint trace in Ca
  - Note 2 Lat + 30 W A faint nectangular cloud floats above it in Ca making the total horoht 60
- 4 Lat 4 83 W Ca Top connected to that of the next prominence by a very faint Ca streak
- 5 Lat -13 E A streamer flows southwards from the top o er about 7 the southernmost point of it being 0 away from limb. The streamer wis about 3 long at 81 17m and 7 at 10h 6m.
  - I at + 0 + 21 E Connected by a curved Ca streak at top ats highest point being 70
- 10 Note 1 —Lat —11 5 E A slanting streamer proceeds from the southern end ats highest point being 110
  - Note 2 —Lat -10 11 5  $\square$  Connected at top—Bright in hydrogen but only a very frint trace in Ca
  - Note 3 —I at 4 18 W Ca haint Slants northwards till its top nearly meets that of the next prominence
- 11 Lat 49 W Two irregular arches connected to one another. Ca photograph shows a double prominence 3 broad and 35 high at the western end and a low bank quite separated from it at the so ithern
- 15 Note 1 —Lat —3 E Slants southwards Top narrow A streamer 4 long flows south wards from the middle of it
  - Note 2 —Lat —1 W Slants southwards A short broad streamer flows southwards from the top The streamer meets the last prominence in Ca
- 30 Lat -26 W Ca prominence of high and slants northwards till it meets the next prominence
- 31 Lat -6 W Ca prominence 70 high and slants southwards

November

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- 2 Lat + 51 W Ca A Ca stread connects the top of this with the base of the next prominence
- 5 I at +18  $\Gamma$  Top flows southwards over 4 Shape size and position almost exactly the same as on the previous day
- 16 Prominences were observed except between PA 180 and 285 Very bad seeing
- 23 Lat + 21 D Two prominences slanting in opposite directions and meeting at base
- 26 Note 1 Lat + 56 o E Narrow at top Faint Ca prominence is 10 high and extends nearly to Lat + 50 E

- -contd
- A Cast eak proceeds from the top of this prominence passes November 25 Note 2—Lat +8 E Double through that of the next and meets limb at Lat -2 L
  - Divides into two broad branches at top lying one on each side of 28 Note 1 —Lat —18 W it the northern one bend ng down and nearly neeting the next prominence
    - A slanting Ca streak about 50 hi h lies over the prominence but Note 2 —Lat —1 detached from it
    - Note 3 —I at + 12 W Brolt metallic Mg Fc Nalnes st ong Pommence not found
  - 29 Western limb was not examined on account of clouds the eastern was examined during short
- December
- 3 Note 1 —Lat 53 E Slants eastwards A short branch branches southwards from near the top
  - Note 2 Lat + 49 5 W Quite different in shape in Ca A bank about 20 high connects th s and the next prominence in Ca
- 4 Note 1 -Lat + 39 E Tallest at the eastern end Ca prominence is cenerally slightly higher is 65 high at the e stern end and extends 1 further north
  - Note 2 -I at + 19 E Double one of them the upper being detrehed from the limb and f om the other prominence. It is however connected to limb at Lat +1  $\Gamma$  in Ca
  - Note 3 —Lat 26 5 D The reatest height in Cr was (0 at 81) Ol anging very rapidly 46m and 100 at 91 18
  - Note 4 —Lat 87 C C prominence spointed at top as in hydro en bit extends 2 west wards at base
  - Note 5 Lat +8 W A Ca streak from the top meets limb again at I at +4 W Another Ca streak from the top meets that of the prominence at Lat + 10 W
  - Note 6 —Lat + 16 W Divide into two branches at top one of which is cets the Ca stical from prominence at Lat +8 W (see note  $\sigma$ ) and the other meets limb a  $\pi$  at Lat +21W Cr prominence more continuous and 60 high
  - No p ominence in this position But ( was displaced about 6 A Note 7 —Lat +23  $\rightarrow$  W to red at  $9^h$  8 The displacement disappeared within 3 min ites after that
- 5 Note 1 J at 23 E Slanting tree lile A branch from near the top hungs down and nearly meets the next prominence. The prominence was clearly seen in the Ca flocouli photograph up to 150
  - Note > -Lat + 50 W A faint slanting streak proceeds westwa de from near the top as far as I at + 15 W where it is about 60 high
  - Note 3 Prominences were observed hurnedly during breaks in clouds  $I \land 0 115$  was not examined
- 15 Note 1 —Lat + 9 W The prominence narrows in the upper half into a narrow strip about 5 long flowing northwards
  - Note 2 Lat + 32 b W The western end is tallest and a short streak flows noithwards from its top
- 16 Note 1 —Lat + 10 W Separates into two branches covering about 8 from and to end at top
  - Note 2 —Lat + 28 W A cloudlet far away from the hmb but nearly connected to the top of the next prominence by a narrow streak
- 18 Lat −36 W Slants southwards Faint tree like More discontinuous at 91 35
- 25 Lat -23 W Two streaks proceed westwards from it the lower one meeting the limb at Lat -17 o W
- 29 Lat 32 5 E Divides into two branches at top one of which meets the last prominence at top An uregularly shaped cloudlet floats between the two

SOIAR PHYSICS OBSERVATORY KODAIFANAL June 24 1907

#### J EVERSHED

Ag Director Kodarkánal and Madras Observatories

---1907

# Kodatkanal Observatory.

### BULLETIN No XI

## WIDENLD LINES IN SUNSPOT SPECTRA

No 877	(Gr 58	95 )	W 1 gtl M N mb f
Tax	r — 11		5709 797 6 1
			5727 873 1 5731 437 1
L	ong 41		5731 437 1 5 37 288 8 2
CLASS-I	$\Pi a \ \mathbf{IV} b \ \mathbf{II} b$	$1\nabla a$	<b>57</b> 48 645 9 1
Date—1	906 July 2 '	3	Ob —SS dGN
W 1 gth	M Wdg	N mal f Ob t	
4862 0 9	7	1	
4864 919	8	1	
4875 671	8	1	No 880 (Gr 5898)
4885 64	6	2 1	·
4965 107	7	1	$L_{AT} + 21$
5001 165 5009 829	6	2	Long 7
5013 4/79	7	1	LIONU •
5016 <b>84</b> 0	7	1	$\mathtt{CLass}$ — $\mathtt{IV}a$ $\mathtt{IV}b$
5028 0 2	7	1	Date-1906 June 30 July 2 3 4 7 10
5045 582	7	2	
5058 056	6	1	Wigtl Wdg Obt
5066 174	7	2	
5085 341	5	1	4861 919 8 4 4868 461 5 1
5087 289	6	1	5.000 202
5120 592	4	1	4870 323 6 1 4875 671 7 2
5184 697	4	1	4885 264 G 8
5186 270	6	2	4965 107
<b>5188</b> 690	7	1	5001165 7 2
<b>513</b> 8 890	4	1	5009 829 6
514 652	7	2 2	5016 340 4 1
5150 363	8	1	5028 0 2 6 8
5156 828	4 4	1	5025 749 4 2
5160 419	4	1	5043 761 5 1
516 <b>3</b> 07 <b>4</b> 5219 87	6	2	5045 582 7 6
5225 695	6	1	5053 056 5 1
5426 474	8	2	5068 174 7
5460 572	7	2	5071.668 6 <b>1</b>
5490 867	7	2	5085 841 1
5490 905	6	1	5087 239 6 2
5627 859	6	2	5117 071 4 1
5671 071	7	2	118 112 4 <b>1</b> 5120 592 4 <b>3</b>
567 047	8	2	5120 592 4 2

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5138 890 4 1 514 652 7 6	
514 652 7 6 5150 368 6 5	$\mathbf{CLass}\mathbf{I}\nabla b\ \mathbf{II}a\ \mathbf{I}\mathbf{II}b\ \mathbf{I}\nabla a$
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5163 074 5 1	W 1 gth Wd g Ob t
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5 25 695 6 1 5260 561 5 1	4965 107 4 1
5426 474 7 6	5001 165 6 <b>1</b> 5009 829 6 <b>2</b>
54G0 572 G	5045 582 6 2
5490 867 6 4	5063 056
<b>5</b> 627 859 6 6	5066 174 G
5671 071 7 6 5672 047 7 6	5087 239 5 1
5703 797 6 2	5147 65 6 2 5150 868 6 2
5707 873 <b>5</b> 2	5150 868 6 2 5219 8 5 1
5727 878 5 1	5426 474 7 2
5781 <b>4</b> 37 5 <b>1</b>	5460 572 6 1
5787 298 7 6	490 867 6 1
5748 645 8 4 5866 675 5	5627 859 6 2
	5(71 071 6 2
Ol —SS dGN	5672 04/7 6 2 572 878 5 1
	5781 437 1
	5737 88 7 2
	743 645 7 1
	Ob SS dGN
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Lat + 21	
Long 342	
CLASS-I IVb IIa IVc IIIb	
	No 899 (Gr 5923)
Date—1906 July 11 Www.ln.th _M N b f	$\mathbf{L}_{AT} + 4$
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5066 174 4 1	Date—1906 July 24 26
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5219 875 7 1 5426 474 5 1	4864 919 5 2
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5627 859 5 1	4885 264 5 1
56 1 071 5 1	5001 165 6 2
5672 047 5 1	5009 829 5 1
5727 878 6 1	5045 582 G
5731 487 6 1 5737 288 7 1	5066 174 6 2 5196 270 7 1
	5136 270 7 1 5147 652 C 2
0 —G 7	V22, UV

W 1 th M N mb f	No 907 (Gr 5933)
7 1 Wd g O t 51 0 863 5 2	Lar — 16
54 6 474 4 2	Long 25
5460 2 4 1 5490 367 4 2	
562789 4 2	$O_{LASS}$ — $I$ $I \nabla b$ $I \nabla c$
5671 071 2	Date—1906 August 2
5672 047 5 2 797 288 C	$oldsymbol{W} oldsymbol{l} oldsymbol{ ext{gth}} oldsymbol{ ext{M}} oldsymbol{ ext{M}} oldsymbol{ ext{N}} oldsymbol{ ext{mb}} oldsymbol{ ext{f}}$
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	5460 572 8 1
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4863 838 7 1	5727 873
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5001 105 6	Ol —88
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5066 174 ) 2 5130 543 8 1	
5134 697 7 1	
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5138 G90 8 1 5143 901 6 1	LAT + 18
5143 901 6 1 5147 652 7 2	
5150 363 8 1	Long 200
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5460 572 7 1	W l gtl W l g Ob t
5490 867 7 1	4965 107 4 1
5490 905 6 1	6009 829
5627 859 6 <b>2</b> 5671 071 8 <b>2</b>	5048 761 4 1
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5743 645 8 2	5147 652 5 1
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5460 572 5 1	Long 24
5490 367 4 1	C TT W TV-
5627 859 6 1	$\mathbf{C}_{\mathbf{I}}$ ass $-\mathbf{I}\mathbf{I}\mathbf{I}a$ $\mathbf{V}$ $\mathbf{I}\mathbf{\nabla}c$
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5731 437 5 1	4861919 8 1
5737 288	4875 G71 C 1
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	5023 0 2 7 1
	5048 761 8 1
	5045 582 8 1 5066 174 8 1
	186 270 7 1
	5147 652 9 1
	5150 363 9 1
	5300 78 7 1
No 924 (Gr 5946)	5426 474 8 1
	5480 572 7 1
$L_{AT} + 22$	490 367 6 1
T. OFF	5627 859 6 1
Long 355	56 1 071 7 1
CLASS—IVa IVb IVc	672 047 7 1 737 288 8 1
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4864 919 9 2	
4875 671 7 1	
4965 107 5 1	
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5023 052 8 2	No 931 (Gr 5956)
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5134 697	Lat + 4
5186 270 8 2	
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5150 <b>9</b> 63 <b>7 3</b>	CLASS-IVa IVc IIIb I
5219 875 6 1	
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5672 047 6 8	5048 761 4 1 5045 582 4 1
5708 79 <b>7</b> 7 1	5066 174 4 2
5707 204 7 1	5147 652 6 2
5727 878 5 1	5150 868 6 2
5731 487 5 1	5156 828 4 1
5787 288 7 8	5219 875 6 25
5743 645 8 2	542644 5 2
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4885 261	5	1		
4928 511	U	1	Lat — 23	
5001 165	6	•	T 100	
5023 0	6		Long 199	
045 582	7		Class—I II $a$ IV $b$	
5066 174	8	2		
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5147 052	7	2	W 1 cel M N mb	f
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56278 9	4	1	4885 264 5 1	
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5737 88	6	1	043 761 6 7	
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Loz	NG 218		5147 652 3	
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			5160 419 5 1	
Dave—190	6 September 1		5219 875 6 2	
W l gth	M n O	N b f b t	5899 675 4 2 5 126 474 7 2	
4864 919	6	1	460 572 6 2	
4875 671	5	1	5490 367 6 3	
5001 165	5	1		3
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5707 204 7 1	5001 165	7 1
5727 878 4 2	5009 829	6 3
5731 437 4 2	50 3 052	6 2
5737 288 6 3	5025 749	4 1
5743 645 7 1	5045 532	6 8
Ob —SS dGN	5053 056	5 1
	5066 174 5087 89	6 2
	5184 697	6 6 1
No 943 (Gr 5965)	5136 270	6 1 7 1
	5117 652	6 3
Lat + 9	5150 363	( 3
Long 146	5156 823	5 1
	219 875	6 3
CLASS—I IV $b$ III $a$	522 695	5 1
Date-1906 September 14	5426 474	6 3
	5460 72	6 2
$egin{array}{cccccccccccccccccccccccccccccccccccc$	<b>549</b> ( <b>367</b>	6 3
	56 859	3
4864 919 6 1 487 6 1 5 1	671 071	5 3
487 6 1 5 1 4928 511 5 1	5672 047	5 8
5001.165 6 1	5700 402	5 1
5009 829 4 1	5708 797 707 204	5 3
5023 052 7 1	707 204 5727 8 <b>7</b> 3	8 1
5045 82 7 1	5731 <b>4</b> 87	5 2
5066 174 7 1	5787 288	6 <b>2</b>
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5150 863 7 1	Ob	SS nd G N
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5787 288 5 1 5743 645 5 1	Date-1906	September 15
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	496 107	4 1
	5009 829	6 1
No 944A (Gr 5968)	5045 58	4 1
T 18	5058 0 6	1 1
Lat $+7$	<b>5</b> 066 <b>174</b>	4 1
Long 96	5147 652	4 1
	5150 3C3	4 1
CLASS-IVc IVa IVb IIIa I	5219 875	5 1
Date-1906 September 13 16 17	5426 474 5 100 867	6 1
	5 190 367 5627 85J	6 1
W lgth M Nmbf Wlg Obt	5671 071	1 5 1
4884 919 8 1	5672 047	5 1
4875 671 7 1	5727 873	4 1
4885 264 6 1	5781 437	4 1
4928 511 6 1	Ob	−G N
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337				
No 980 (Gr 6001)	W l gth	M Wdg	N mb f Ob t	
$L_{AT} + 14$	225 695	7	1	
Long 182	5800 929	6	1	
TIONG 10%	54 6 47 1	8	2	
CLASS—I IIa IIb IIIa	5480 572	6	2	
Date—1906 November 4	5490 367		1	
17ate—1900 Avovember 4	5490 905	6	1	
W lngth Wlng Ol t	6 7 859	7	2	
	5671 071	8	2	
5023 052 1	5672 047	8	_	
5025 749 4 1	5707 201	7	1	
060 174 5 1	5727 878	8	1	
5138 890 5 1 5143 901 1	5731 437 5737 288	8	1	
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5703 797 5 1				
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	Or ass— $1 V t$ $ extit{Date}$ — $1906$			
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No 981 (Gr 6004)	W lngth	W d b	Ob t	
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	488 264	7	1 1	
Long 61	4928 511	6	1	
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CLASS— $\mathbf{I} \nabla b \ \mathbf{I} \nabla a$	5009 829	Б	1	
Date-1906 November 10 18	5028 052	7	1	
W looth Mn Nmb f	5043 761		1	
W lngth Wd g Ob vt	5045 582	8	2	
4864 919 8 2	5066 174	8	2	
4875 671 7 1	5134 697	8	1	
4885 264 7 1	5186 270	8	2	
4965 107 6 1	5148 901	7	1	
4975 580 5 1	5147 652	8	2	
5001 185 6 1	51 0 868	6	2	
5009 829 4 1	5219 875 5225 695	8 6	2 1	
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5016 840

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5138 690

5148 901

5147 652

5150 363

5219 875

-KVS dss

5225 695

5426 474

5627 859

5671 071

5672 047

5727 873

5731 437

5737 288

748 64

Оb

No 989A (Gr 6021)	W l h	M Wd g	Nmb f Ob tn
$L_{AT} + 11$	130 543	6	1
T - 210	5147 652	7	1
Long 210	5150 363	6	1
CLASS—IVe IV $c$ II $c$ IV $b$	522 695	6	
	5300 578	7	1
Date-1906 November 26 30 December 3	5426 474	7	1
W l gth M N mb f	5490 867		1
a wa b t	671 071 567 047	<b>с</b> 6	1
4862 029 6 1	787 288	7	1
4862 788 6 1	5743 C45	7	î
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487 C71 7 2 488 264 6 2	Ob	-66	
4915 1 4 7 1			
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5134 697 7 1 5186 2 0 8 1		•	707 . 0
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5147 652 7 8	W 1 gth	M n wlg	N b f b t
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225 695 6 3	48f4 919 1875 671	8 6	4.
5800 578 7 1	4885 264	6	4 3
4 6 474 7 3	491 411	ř	1
5460 572 6 2	4928 511	6	2
5490 367 6 3 562 859 6 2	001 165	8	2
662 859 6 2 5671 071 3	5009 829	6	4
567 047 7 3	0 3 0 2	<b>8</b>	J
6708 797 6 1	5048 761	7	1
5707 204 0 1	045 82 5066 174	7 9	4
5 87 288 7 8	5184 697	6	4 2
5748 64 7 3	5136 270	6	<b>~</b>
Ob v —88	5138 690	6	1
	5143 901	6	1
	51 17 652	8	4
No 0000 (0- 0001)	5150 868	7	3
No 989B (Gr 602I)	5219 875	5	2
Lat + 11	5225 695 5800 578	6 7	4 1
	54 6 <b>1</b> 74	8	4
Long 210	460 572	(	2
CLASS IVe IVc IIc IVh	5490 367	7	3
	5490 905	7	1
Date—1906 December 3	5627 859	6	2
W l gth M n N mb f	56 1 071	7	4
wu g p t	5672 047 ##09 707	7	4
864 919 7 1 5001 165 6 1	5708 797 5707 204	6 6	1
5001 165 6 1 5009 829 4 1	5787 88	8	1 4
5045 58 7 1	5748 45	8	4
5086 174 8 1	Ор	—s s	-
-	Op	—a a	

No 992 (Gr 6026)	W lgtl Mydg	N mb f
Lat + 22	5490 867 6	1
·	5627 859	1
Long 228	5671 071 7	1
CLASS—I IIIb IIa IV	5872 047 7 5703 797 7	1 1
Date-1906 December 3	5707 204 7	1
M Nmb f	<b>5737</b> 288 8	1
With lgbt	5743 645 8	1
4864 919 8 1	ОЪ — 5 8	
4875 671 7 1		
4884 264 5 1 4028 11 1		
1977 838 6 1		
001 165 7 1		
5009 829		
502 052 7 1	No 1010 (Gr	60/16
5015 582 7 1 5066 174 8 1		0040 )
5130 543 7 1	Lat - 17	
5136 2 0 7 1	Long 3°1	
514762 8 1		
51 0 363 7 1 5219 875 5 1	OI ASS $-\mathbf{IV}a$ IV $b$	IVc
5225 695 6 1	Dates—1906 December	r 14—24
300 78 8 1	M 1 a h M	N mb f
54 6 474 8 1	Wigh wd ;	g b t
5460 572 6 1	4862 029 6	2
5490 67 7 1 5627 859 5 1	4802 783 6	2
5627 859 5 1 5 71 071 7 1	4863 833 9 4861 919 8	1 5
567 047 7 1	487 (71 6	3
5737 288 8 1	488 64 4	2
<b>5743 645</b> 8 <b>1</b>	1928 11 5	3
Ob —8 9	5001 16 6 5009 829 6	5 5
	5009 829 6 5023 052 b	3
	5043 761 6	1
	5045 58 <i>≥</i> 6	6
	5066 174 7	7
No 1008 (Gr 6042)	5085 341 4 5087 249 6	2 2
Lat $+13$	5180 548 7	8
	5131697 6	2
Long 345	5186 270 7	5
$\mathbf{C}_{\mathtt{LASS}}$ — $\mathbf{I}$ $\mathbf{III}b$	5188 690 7	1
Date-1906 December 22	5140 55 <b>3</b> 6 51 <b>43</b> 901 7	1 2
	147 652 6	7
We lgth wdg btn	5150 363 <b>6</b>	4
4864 919 6 1	6219 875 7	8
4875 671 5 1	5224 4/71 6 5225 69 6	2
4885 264 5 1	5225 69 6 5228 546 5	<b>3</b> 1
5001 165 5 1 5045 582 4 1	5238742 7	2
5045 582 4 1 5066 174 7 1	<b>5289 137 5</b>	2
5147 652 6 1	5300 578 6	8
5225 695 6 1	5394 889 } 913 }	1
5426 474 8 1	319	

W 1 gth M n N mb f	No 1014 (Gr 6049)
5426 4 4 8 6	I AT + 15
5460 572 6 6	Long 310
5490 367 6 5 5490 905 5 2	
5627 859 6 6	$C_{LASS}$ — $I$ $IIb$
5671 071 7 6	Date—1906 December 22
5672 047 7 6	W l gth M N mb f
5703 797 6 3	wigth will g b ta
707 204 6 3 5727 873 6 4	4864 919 7 1
5781 487 6 4	4875 671 1
5737 288 8 6	4885 264 5 1 5001 165 7 1
5743 645 8 <b>6</b>	5001 165 7 1 501° 340 6 1
5866 675 6 1	5023 052 7 1
Ob —88 dGN	5045 58 6 1
	5066174 8 1
	5180 543 6 1
	130 270 7 1 5143 901 6 1
	51±3 901 6 1 147 652 7 1
	5225 695 7 1
	5300 578 5 1
No 1011 (Gr 6045)	5426 474 6 1
No 1011 (Gr 6045)	5490 367
$L_{AT} + 14$	56 7 859 5 1 5671 071 6 1
	5671.071 6 1 672.047 6 1
Long 321	5703 797 7 1
	5707 204 7 1
$\mathbf{C}_{\mathbf{I}}$ ass— $\mathbf{I} \mathbf{\nabla} a$	5737 288 7 1
Date-1906 December 22	5748 645 7 1
W l gth M N mb f w l g b t	ОЪ —8 В
4864 919	
4875 671 5 1	
4885 264 5 1 5001 165 7 1	No 1016 (Gr 6053)
5001 165 7 1 5016 840 6 1	$L_{AT} + 18$
5028 052 7 1	
5045 582 6 1	Long 226
5066 174 8 1 5180 548 6 1	Class—I $\Pi a \ \Pi c \ \Pi a \ \text{IV} b$
5180 548 6 1 5186 270 7 1	Date-1906 December 24 25
5143 901 6 1	
5147 652 7 1	W l gth M N mb f wd ng b t
5225 695 7 1	4965 107 5 2
5300 578 5 1 5428 474 6 1	5009 829 6 2
5426 474 6 1 5490 367 5 1	50 8 052 5 1
G27 859 5 1	5025 749 4 1
56 1 071 6 1	50±3 761
5672 047 6 1	5053 0 6 6 1
5708 97 7 1	5066 174 6 2
5707 204 7 1 5737 288 7 1	5085 841 4 2
5787 288 7 1 5748 645 7 1	5087 239 4 2
•	5147 652 5 2
Ob — <b>8</b> 8	5150 363 6 2

W l gtl	Y Nmbf wdgbt	W 1 gth.	M n N mb wd mg b	f t ns.
156 823	4 1	5148 901	5 7	
5160 419	4 1	5147 652	6 10	
5163 074	4 1	150 363	6 10	
5219 875	7 2	156 823	1	
5224 471	5 1	160 110	5 1	
5 38 74	6 1	5168 200	5 1	
5426 474	8	219 87	8 10	
5460 572	7 2	5224 471	5 3	
5490 867	G	2 695	7 .	
5490 J05	5 1	238 742	6 2	
5627 859	6	5260 540	5 1	
5671 071	6 2	5800 578	7 1	
56 2 047	6	304 355	5 1	
5700 <b>4</b> 02	5 1	<b>5426 474</b>	8 10	
5703 797	1	54( 0 572	7 10	
5727 873	6 2	490 St 7	6 7	
731 437	6	5490 905	5 3	
5737 28	9	50 <b>7</b> 8 <b>59</b>	6 10	
<b>574</b> 3 6 <b>4</b> 5	6 1	671 071	7 10	
Оъ	—G N	5672 017	7 10	
	3.21	5700 402	6 4	
		5 03 797	6	
		570 <b>7</b> 204	6 2	
		7 7 873	6 6	
		73 187	6 7	
		37 288	7 9	
		5748 C45	7 3	
No 1001	(am 6050 )	800 075	1	
No 1021	(Gr 6059)	Ol	-8 S nd G N	
I a	T + 7			

Long 108

Class—IVb IVa IIb IIa

Date-1906 December 29-1907 January 9

W 1 gth	Man wdg	N mb f b t	No 1034 (Gr 6075 to 6077)
4864 919	7	1	Гат — 13 го 22
4875 671	5	1	
4885 264	4	1	Long 320 ro 329
4928 511	5	1	
49t 107	5	1	Crass—V IIIa IVd IIIb
<b>5</b> 001 165	6	1	70-de 1000 7 10 10
5009 829	6	10	Date—1907 Januar J 12—18
5043 761	4	2	w lath M h b f
<b>504 82</b>	5	9	W l gth Widg b t
5053 056	5	2	4864 910 6 4
5066 174	6	10	4875 871 5 3
5087 239	6	1	4928 511 4 2
5180 548	6	1	500116 6 3
5134 697	5	2	5009 829 6 6
5136 270	5	4	5028 052 5 3
5138 690	4	2	5043 761 5 1
5138 890	5	1	5045 582 6 7
5140 094	5	2	5053 056 6 1
5140 336	5	1	5086 174 6 7
5141 497 7	_	_	5087 289 6 4
886	5	2	5180 548 6 8

W l gth M wd	N mb f g b t	No 1044	(Gr 6	088)
5134 697 5	2	LAT	r — 17	
5186 270 6	2	Tor	7G 230	
5143 901 6	1	1108	1G 200	
5147 652 6 5150 3( 3	7 6	CLASS-IVa I	[Vb I∇e I	IIa IVd
5219 875 7	5	Date—1907	January 2	21-25
5 25 695 5	2		M	N b f
5800 578 4	1	W 1 gtl	wd g	b t
5426 474 8	8	4862 029	5	1
5460 572 6 5490 367 6	5 2	4864 919	7	3
5627 859 6	5	4875 671	6	2
5671 0 1 6	6	488 264	4	
567 047 6	6	49 8 511	4	2
5727 878 6	1	5001 165	-	2
5731 437 6 5737 288 7	1 6	009 829	7	3
5743 645 7	2	5013 179 5010 340	5 5	1
	I G M	5028 052	6	1
00 -25 4	. • 1	5025 <b>7</b> 49	5	1
		5043 761	6	1
		5015 582	6	4
		5066 174	6	3
		5087 23 )	5	3
		5130 543	6	5
		5136 70	6	2
		5188 690	4	1
No 1043 (Gr	6087)	51 18 901	4	1
T.m. + 10		5147 652	6	d.
$L_{AT} + 19$		1 0 363	5	4
Long 230		<b>5</b> 19 875	6	4
		25 695	6	
CLASS— ${ m IV}a$ I ]	$\mathbf{I}  abla b$	5238 712	6	1
Date-1907 Janu	amı 19	5289 137	4	1
3.5	_	5300 578	5	2
W 1 th w 1	Nmbf gbt	<b>5426 474</b>	8	4
4864 919 6	1	5460 72	6	2
928 511 4	1	548 078	5	1
5001 16 5	1	5190 867	6	2
5023 052 5	1 1	5490 905	5	1
5045 82 <b>5</b> 5066 174 <b>7</b>	1	5547 215	4	₹.
5130 548 5	1	5 <b>€27</b> 859	_	4
5147 652 6	1	671 071	7	4
5225 6)5	1	5672 047	7	4
5300 578 5	1	5 00 402	6	2
5426 4 4 6 5460 572 5	1 1	5703 797 5707 904	6 A	2
5490 367 5	1	5707 204 Epop 272	6	2 2
56 7 8 9 4	1	5727 878 5721 427	6 6	2
<b>5</b> 671 071 5	1	5781 <b>487</b>	7	8
5672 047 5	1	787 288 6748 645	8	2
5737 288 6 5743 645 6	1 1	566 675	5	1
Ob —S 8	ı	Ob -	—ss dG	•

# No 1045 (Gr 6090)

Lat +4

Long 174

OLASS-IVa IVb

Date-1907 Januar J 23-29

W	l gtl	h	w d		g	N ml	t f
4.0	002.000				•	ě	-
	862 029 864 919			8		ē	
	875 671			6		4	
	885 264			4		3	
	880 204 916 4 6			g. G		1	
	910 ± 0 928 511			4.		8	
	001 1C5			<u>د</u>		4	
	009 829			6		ė	
	018 479			5		1	
	016 340			5			-
	02302			6		4	
	025 49			5		1	
	01347			4		1	L
_	043 761			5		8	•
	045 582			7		Č	
	052 803			5		]	
	053 058			5		- 2	
-	061 882			4		1	
_	062 285			4		1	-
-	066 174			8		Ē	
_	087 <b>28</b> 9			4		9	
_	180 548			6		-	
-	134 697			4		1	L
-	136 <i>2</i> 70			G			3
-	138 69C			5		3	
	143 901			•		•	_
_	1 17 652			6		í	
-	1 0 863			в		ě	
-	219 87			6		Ć	·
_	25 695			6		4	6
_	28871			4		3	L
-	89 187			4		ן	L
_	B00 578			6		5	3
-	800 929			5		1	L
_	420 510			6		1	ļ
	426 474			8		6	3
_	460 572			7			5
	<b>49</b> 0 867			6		8	3
_	490 90			4		2	3
	827 859			G		6	
	671 071			7		•	3
	672 047			7		e	3
	700 402			6		2	3
_	708 797			6		2	3
	707 204			в		2	;
	727 878			6		ŧ	;
_	781 <b>4</b> 37			6		5	i
	787 288			8		e	}
-	748 645			8		4	
•	Ob	rv	<b>—8</b> 8		d d		

## No 1050 (Gr 6098)

Lat + 8

Long 113

CLASS-IVa I IVb

Date-1907 Januar j 27-31

<b>w</b> 1	gth	M wd		N n b	ıb t	f
4864 9	1.)	8			3	
4875 6	71	7			3	
49651	.07	6			1	
5009 8	29	в			4	
5028 0	5	7			8	
5045 5	82	G			4	
5066 1	71	7			4	
087 2	89	5			1	
136 2	70	7			1	
147 6	52	7			4	
150 8	68	6			4	
5 19 8	75	7			2	
542€ 4	74	g.			4	
5460 5	7	6			3	
5490 8	67	6			3	
5027 8	59				8	
5671 C	71	7			4	
5672 0	47	7			4	
5700 4	02	5			1	
5 03 7	97	Б			1	
707 2	£0.	5			1	
5727 8	378	6			2	
5731 4	<b>⊾37</b>	G			2	
5787 2	88	8			4	
5718 6	3 7 2	8			3	
	ОЪ	<b>-8</b> 8	d G N			

# No 1051 (Gr 6099)

 $L_{AT} + 22$ 

Long 82

CLASS-IIb IIa IIIa IVb

Date-1907 January 30-February 4

w	1	gtl	M.q v	 mb f t n
486	2 0	29	6	8
486	32 7	88	7	1
486	49	19	9	4
487	<b>75</b> 6	71	6	4
488	35 2	64	4	4
489	47	43	5	1
488	8	78	6	1
491	6 4	6	6	3
492	:0 O	47	5	2

W l gth	M n A	Tmb f	No 1052 (Gr 6100)
1000 11	4	4	Lat + 11
4928 11		1	Long 74
4948 868	5		$C_{IASS-}$ $I$ $IIIa$ $IIc$ $IVb$ $IVa$
4965 107	6	2	Date-1907 F bruary 2 4 6
4977 838	4	1	•
5001 165	6	4	W lgth Mrn N bf
5009 829	6	6	4862 029 5 1
501 <b>8 479</b>	5	2	48F4 <b>9</b> 19 8 3
016 <b>340</b>	5	2	4875 671 6 2
50 3 052	7	5	5001 165 6 2
5048 475	6		5009 829 5 8 50 3 052 7 8
5043 761	6	4	50 3 602 7 5
5045 582	6	7	5045 582 3
5058 056	6	1	5066 174 8 3
5062 66	4	2	5136 270 6 1
5062 28	_		5147 652 7 3
5066 174	7	ь	5150 <b>3</b> 03 5 1
	<i>,</i> 5	U	5219 875 5 3
5085 668		4	5225 695 5 2
5087 239	5	4.	5426 474 8 3
130 543	6	1	54°0 572 3 5190 807 6 8
134 697	4	2	5627 859 3
5186 270	6	8	5671.071 8 3
5188 690	6	3	56 2 047 8 8
148 901	6	2	5 27 873 6 l
5147 652	7	7	5781 <del>4</del> 87 6 1
5150 363	6	7	5737 88 8 3
5212 859	в	2	5 48 645 8 3
5219 875	8	6	Ob —8 S
5225 695	5	4	
528871	5	2	No 1057 (Gr 6103)
5239 137	4	_	
5800 578	6	3	Lat 13
5367 044	7	1	Long 337
5426 474	9	7	$\mathbf{C}_{\mathrm{I}}$ ASS $-\mathbf{I} \nabla b \ \mathbf{I} \nabla c \ \mathbf{I} \nabla d \ \mathbf{I} \nabla e$
5448 405	5	i	Date $-1907$ February 5 $-10$
5460 572	7	b	W lgtl Mn N ber f
5482 078	5	1	t g U
5490 367	7	6	4862 029 2 1 4862 788 4 1
5490 905	6	3	4864 919 8
56 <b>7</b> 859	6	7	487 671 6 3
56 1071	7	7	4885 261 5 8
5672 047	7	7	4916 428 6 1
5700 402	5	4	4926 394 6 1
5703 797	5	4	4928 511 4 8
5707 204	5	4	4965 107 5 3
5727 873	6	7	001 165 6 8
5731 487	6	7	5009 829 7 5
5737 288	8	6	5018 4/79 5 1 5016 340 5 1
5749 645	9	5	5023 052 6 4
5866 675	6	2	5048 4 5 5 1
5867 785	6	1	5048 761 5 2
Ob	—88 dGN	_	5045 582 G 5
QD	-5 uga		5066 17 1 7 5

w 1 th	M dg	N mb f	No 1061	(Gr 6108)
5085 ( 68	5	1	Lat	
(187 23 )	6	8		
130 13	6	2	Long	
134 ( 97 186 0	1.	1	Ct ass—IIc III	i  III a  V IV d
188 ( JO	•	1	D te- 1907 I	F bruary 9–18
113 901		1	W 1 th	Y Numb f
11 6 2	7	4		wdnig b t
51 0 3් 3	Ĺ	5	4862 0   9 4864 919	5 1 7 5
5 19 87	7	5	4875 6 1	6 2
225 ( J5 238 7 1 <i>2</i>	5	3	<del>48</del> 85 <b>2</b> 54	5 1
5289 137	i,	1	4916 426	5 1
542( 174	ว <sup>ั</sup>	5	4926 334	7 1
5460 7	7		49 8 51	4 2
4 10 367	7		4948 520 49 0 801	6 1 5 1
4 )0 )05	(		4955 4	i
6789	_	5	4965 107	6 6
(71 071 8 2 0 17	7 7	5 5	50 <b>0</b> 1 1 <del>0</del>	6
00 402	,	i l	5009 8 9	7 8
03 7 17	U	4	5013 479 016 840	5 1
707 O L	(	4	50 8 05	5 1 7
5727 87 3	6		5048 475	5 1
731 137	U	r	5043 761	6 5
5 37 288	8		50 <b>4</b> 5 58 <b>2</b>	6 8
713(40	7		50861 4	6 8
01	-5 9 1 G N	•	5085 C68	6 8
			5087 289	6 6
			5130 543	4 1 5 1
No 1060	(Gr 6)	107 \	134 69 <b>7</b> 5188 270	5 1
	*	(01)	5138 690	5 1
	T — 4		5140 992	7 1
	ng 323		5147 652	6 8
	$-\mathbf{I} \nabla a \ \mathbf{I} \nabla b$		5150 368	6 8
Date—190	07 Idruary	12	5 19 875	7 8
W l gth	M	N mb f	25 695 298 <b>74</b> 2	5 2 5 1
1864 91 )	id g B	b t 1	5239 137	1
487 (71	ζ.	i	300 578	6 1
001 10	r	1	5838 J <i>?</i> 7	7 1
5009 82)		1	420 474	8 8
50 3 052		1	5460 5	6 8
5015 82	7	1	490 867 5490 905	6 5 5 1
50( 171 14 ( 2	8	1	56 78 9	6 8
150 8( 3	7 ቴ	1 1	5671 <b>07</b> 1	6 8
21.3 875	5	1	5672 047	6 8
5227 69	J	1	5700 40	5 1
4 6 171	8	ī	5 03 797	6 1
460 72	7	1	5707 204	6 1
4J0 967	6	1	57 7 873	6 7 6 7
5627 8CJ	b	1	5731 437 5737 258	7 8
5671 071	8	1	743 645	7 4
672 047 5737 <i>≥</i> 88	8	1 1	5866 6 5	6 1
5748 ( <b>1</b> 5	9 8	1	5879 945	6 1
O)	_s s	-	Ob r=	-88 dGN
U	- a a			

No 1073	(Gr 611	7)	W lngbl	M	N b f
$\mathbf{L_{AT}}$	J. A		•	wdng	b tn
	•		5045 58	7	2
Long	164		506G 1 <b>74</b>	8	_
Class—I	Τα Ινι		5085 668 5087 239	G	1
			130 543	U	1 1
Date-1907 F			5184 697	5	1
W l gtl		N mb f	513 270	6	1
48620 9	5	1	5147 652	7	2
4864 91)	8	4	5150 863	c	2
4875 671	6	3	52198 5	G	2
488 264	1	3	5225 69	5	1
496 107	6	1	5126 4 4	8	2
5001 165		5	460 572 5490 867	6 6	
5009 829 50. 3.059	(	5	5490 905	5	2 1
50 3 052 5013 761	6 6	4 1	5627 859	ĺ.	2
045 582	7	5	5671 071	7	-
506° 174	8	· ·	5072 047	7	2
5087 23 )	7	1	Ob	—ss dG1	NT
5147 6 2	7	5			
5150 868	Ĺ				
219 877	6	5	No 1081	(Gr 6	123)
5225 695	4	4.			,
5238 712	6	1	Lat	+24	
426 474 460 572	8 7	5	$\mathbf{L}_{0}$	NG 76	
5400 367	· (	5 4	(JARG TY	a IV/ IV	. т
5490 905	ř	2			
5627 859	6	_ 5	Date-1907	February 2	7 28
5671 071	7	5	W l gth	M. Wdg	N mb f
5672 047	7	5	4864 919	wd g	b n. 1
5727 873	7	4	48 5 671	6	1
781 487		4	4885 264		ī
1787 288	8	5	4905 107	7	1
5748 615 Ob —8	8 SS dGN	5	5001 165	6	1
Ob	b don		5009 8 9	6	2
			5023 05	7	1
No 1075	(Gr 611	8)	6045 582	6	2
Lat -	10		060 174 50 87 289	6	2
	TO			U	1
Long				r	2
	171		5147 652 5150 863	C G	2
		ı IIc	5147 652		2 2
CIASS-I IVb II	Ib IIIa II		5147 652 5150 863	6	
	Ib IIIa IId ebruary 23	25	5147 652 5150 863 5219 875 225 60 5800 578	6 6	2
Orass—I IVb III  Date—1907 F	Ib IIIa IId ebruary 23		5147 652 5150 863 5219 875 225 60 5800 578 426 4 4	ն Ն ճ	2 1 1
Orass—I IVb III  Date—1907 F	Ib IIIa IId ebruary 23 5 M N	25 mb f	5147 652 5150 863 5219 875 225 60 5800 578 426 4 4 5400 572	6 6 <b>5</b> 6 8	2 1 1 2
CIASS—I IVb III  Date—1907 For the second se	Ib IIIa IId ebruary 23 5 M N r d b	25 mb f t	5147 652 5150 863 5219 875 225 60 5800 578 426 4 4 5400 572 490 367	6 6	2 1 1 2 2
Orass—I IVb III  Date—1907 F  W 1 gth  4862 029	ib IIIa IIa ebruary 23 5 M N r d b	25 mb f 2 1 1	5147 652 5150 363 5219 875 225 60 5800 578 426 4 4 5400 572 490 367 5627 859	6 6 6 6	2 1 1 2
CIASS—I IVb III.  Date—1907 F.  W 1 gth  4862 029  4864 919  4875 671  4885 261	ebruary 23 5 M N r d b 6	25 mb f 2 1 1 1 1	5147 652 5150 363 5219 875 225 60 5800 578 426 4 4 5400 572 490 367 5627 859 56 1 071	6 5 6 8	2 1 1 2 2 2 2
Orass—I TVb III.  Date—1907 F W 1 gth  4862 029  4864 919  4875 671  4885 261  4916 26	ib IIIa IIa ebruary 23 5 M N r d b 6 9 6 4	25 mb f t 2 1 1 1	5147 652 5150 363 5219 875 225 60 5800 578 426 4 4 5400 572 490 367 5627 859 56 1 071 5672 047	6 5 6 6 6	2 1 1 2 2 2 2
Orass—I TVb III  Date—1907 F  W 1 gth  4862 029  4864 919  4875 671  4885 261  4916 26  4028 511	Ib IIIa IIa bebruary 23 5 M N r d b 6 9 6 4 4 5	25 mb f t 2 1 1 1 1	5147 652 5150 363 5219 875 225 60 5800 578 426 4 4 5400 572 490 367 5627 859 56 1 071	6 5 6 8	2 1 1 2 2 2 2
Orass—I IVb III  Date—1907 F  W 1 gth  4862 029  4864 919  4875 671  4885 261  4916 26  4028 511  5001 165	Ib IIIa IIa bebruary 23 5 m N r d b 6 9 6 4 4 5	25 mb f t 2 1 1 1 1 1	5147 652 5150 863 5219 875 225 60 5800 578 426 4 4 5400 572 490 367 5627 859 56 1 071 5672 047 5700 402	6 5 6 6 6 6	2 1 1 2 2 2 2 2
Orass—I IVb III  Date—1907 F  W 1 gth  4862 029  4864 919  4875 671  4885 261  4916 26  4028 511  5001 105  5009 829	Ib IIIa IIa ebruary 23 5 M N od b 6 9 6 4 4 5 7 7	25 mb f t 2 1 1 1 1	5147 652 5150 863 5219 875 225 60 5800 578 426 4 4 5400 572 490 367 5627 859 56 1 071 5672 047 5700 402 5 08 797	6 6 6 6 5 5	2 1 1 2 2 2 2 2 2
Orass—I IVb III  Date—1907 F  W 1 gth  4862 029  4864 919  4875 671  4885 261  4916 26  4028 511  5001 105  5009 829  5018 479	Ib IIIa IIa bebruary 23 5 m N r d b 6 9 6 4 4 5	25 mb f t 2 1 1 1 1 1 1 1	5147 652 5150 863 5219 875 225 60 5800 578 426 4 4 5400 572 490 367 5627 859 56 1 071 5672 047 5700 402 5 08 797 57 7 8 8 5731 487 5797 288	6 6 6 6 5 6	2 1 1 2 2 2 2 2 2
Orass—I IVb III  Date—1907 F  W 1 gth  4862 029  4864 919  4875 671  4885 261  4916 26  4028 511  5001 105  5009 829	Ib IIIa IIa ebruary 23 5 M N r d b 6 9 6 4 4 5 7 7 6	25 mb f t 2 1 1 1 1 1 1 1 1	5147 652 5150 863 5219 875 225 60 5800 578 426 4 4 54C0 572 490 367 5627 859 56 1 071 5672 047 5700 402 5 08 797 57 7 8 8 5731 487	G 5 6 6 6 6 6 6 6	2 1 1 2 2 2 2 2 1 1 2
Orass—I IVb III  Date—1907 F  W 1 gth  4862 029  4864 919  4875 671  4885 261  4916 26  4928 511  5001 105  5009 829  5013 479  501 840	Ib IIIa IIa ebruary 23 5 M N r d b 6 9 6 4 4 5 7 7 6 7	26 mb f t 2 1 1 1 1 1 1 1 1 1 1	5147 652 5150 363 5219 875 225 60 5300 578 426 4 4 5400 572 490 367 5627 859 56 1 071 5672 047 5700 402 5 03 797 57 7 8 8 5731 487 5797 288 5748 645	G 5 6 6 6 6 5 5 6 6 7	2 1 1 2 2 2 2 2 1 1 2 2

541

Catalogue of widened lines observed from July 1 1906 to February 28 190

		,	<del>,</del>	···						
W	I gth	o	V mb f p t wh h tl 1 w b d	N mb f tm b d	M n f wl g	W 1 gth	Og	N b f p t wl l th l w b d	N mb f tm b d	M n t f wd g
<b>4</b> 86 <b>2</b> 0 9		σ	13	19	6	5066 174	T	48	119	7
4862 783			4	6	6	)71 G( 6	T	1	1	6
4863 888		F	3	3	8	0 5 341	T	5	7	5
4861 919		v	37	88	7	085 668		4	7	5
4868 451		T	1	1	5	5087 239	1	19	39	6
4870 823		T	1	1	(	ן 778 106			_	
48 <b>7</b> 5 671		v	31	9	6	68		1	1	5
4885 264		T	20	14		117 071		1	1	4
4891743			1	1		5118 112	м	1	1	4
4898 708			1	1	6	109	1	2	8	4
4915 414		ı	l	2	(	5130 543	N	16	29	6
491( 426			5	7		1 34 697		16	22	5
4920 047			1	2	5	13( 270	F	29	50	7
4926 334			2	2	ŧ	138 690		14	19	6
4928 511		T	17	81	5	5138 890	1	5	5	8
4948 868			1	1	5	1 10 094		1	2	5
4948 520			1	1	6	1 10 886		1	1	5
49 0 801			1	1	. 40	110 5 <b>53</b>		1	1	6
4955 1			1	1		140 992		1	1	7
4965 107		σ	18	29	5	ן 141 386				
4975 30		T	1	1		197	σ	1	2	5
4977 833		DF T	2	2		5113 01		15	26	5
5001 165		т	3	63	r	147 65	T	48	124	
5009 829		ro	36	106	6	1 0 863	1	89	113	6
5013 <i>1</i> 79		O I	7	8	5	5156 828	c —	7	8	5
<b>501</b> 6 340		т	11	12	ť	160 119	σ-	5	5	5
502802		т	30	61	6	51(3071	σ	8	8	4
5025 749		ı	6	7	4	<b>5</b> 163 00	o —	1	1	
5048 <i>1</i> 75			4	5	5	212 859		1	2	6
5043 761		T	19	31	6	5219 875	T	83	94	6
5045 582		T	42	121	6	522 4 471	T	8	6	5
505 803			1	1	5	5225 095	) IF	28	51	6
053 056		Г	11	18	5	5228 54C		1	1	5
5061 882		!	1	1	ı	5 38 742	T	9	18	6
5062 066			1	2	4	5239 187	o	6	8	4
		T	2	8	4	260 61	O	1	_	-

Ctlg fwiden dlnes bevdf mJlj 1 1906 t Fb ua y 28 1907—cont

**34**S

W l gth	Og	N mb f p t wh h th l w b d	N mb f tm b d	M m t f wln g	W 1 gth	Од	N mb f p t wh h th l w b d	N mb f t m b d	M n t f wd g
5200 840		ı	1	5	5538 025	м	2	2	5
5300 578		17	23	6	5 <b>5</b> 47 215	rγ	1	1	4
5800 929	σ	2	2	6	56 859	v	42	116	6
5804 355	О	1	1	5	5671 071	v	43	122	G
<b>58</b> 38 927		1	1	7	567 047	s	48	122	6
5869 044		1	1	7	5700 402		11	22	5
5894 689 ]	<u>M</u>	1	1	6	5703 797	V	24	42	6
918 ∫	_ <u></u>	1	*		5707 204	V	1	38	6
5899 675	м	1	2	4	57 7 873		27	9.1	r
5420 510	м	1	1	6	5731 <del>4</del> 37		27	64	6
5426 474	İ	88	115	7	5737 288		10	114	7
5 <b>44</b> 3 <b>4</b> 0		1	1	5	5743 645		37	82	7
<b>546</b> 0 <b>572</b>		33	97	6	5866 675	T	6	7	6
<b>548</b> 078		2	2	5	5807 786	o .	1	1	6
5490 867	т	40	91	6	5879 945	A (w )	ı	1	6
5490 905		15	28	5					

```
1906
            3 880 D_1 D b b b_3 appeared its winged in the spot spectrum 5530 061 (Fe) 5381 221 (Fe) 5396 974 (Ti) 5316 790 (he) 5231 91 (-) 5121 8 2 (F) and 5115 566 (Ni) were effaced in spot 5109 827 (Fe) 5018 629 (Fe) and 4882 336 were thinned (GN)
July
             4 884 C reversed and dark C displaced 1A to red C thinned out in the umbra of the main
                   spot ('N)
           11 884 C was brol en and reversed Lrilliantly to the east of the spot D dark mo tly east of the
                  spot group and very dark where C was brilliantly reversed (G N)
           12 Spot spectra failt 884 886 892 O slightly reversed
           13 894 O broken (G N)
           24 Spot spectrum faint
                899 C slightly displaced o red near the western end of the group
                                                                                            (86)
           25 899 C slightly eversed between he spots
                                                            (KVS)
           28 The widened line observation was made through clouds
                                                                        (8b)
           30 905 C slightly reversed to the west of the spot 9h 50m
                                                                           907 C trongly reversed and D<sub>3</sub>
                 slightly dark on the umbia of the main spot 9 52m
                                                                           (SS)
August
            2 907 C slightly reversed over almost the whole gio ip including umbia (SS)
             5 907 C reversed on nd near the spot 8h 37
            18 915 C slightly reversed about the middle of the group
                                                                        8h 15m
               Seeing bad
                             926 929 C reversed over the whole of both the groups slightly in the former
                  9^h 0^m and 8^h 57^m
                                     (88)
            30 924 C broken some distance to the east of the spot (G N)
            31 923 926 and 932 C reversed between the spots 8^h 5^m
                                                                            Dark C slightly displaced to red
                   at several points in 928 and 926 8h 55m
                                                             (88)
September 1 9'3 C broken and reversed close to spot (GN)
             2 931 C slightly displaced to violet to west of spot 8h 3m (SS)
             4 932 If displaced 2A to violet to north west of group 9h 35m (SS)
             8 936 C slightly reversed Dark O slightly displaced to red at several points 8th 10m
                   stronely reversed close to the central spot and to the west of it D, slightly dark
                   8h 14m`
                            (SS)
             9 934 C broken and reversed (GN)
            10 934 C slightly reversed between the spots
                                                                     (S > )
                                                            9հ 5ա
            12 943 C re ersed on and near the companion spots
                                                                     D dark over the whole group
                   (88)
            14 936 C reversed and bent towards red to the east of the spot slightly displaced to violet to
                   the west of it
                                  81 3m
                946 C strongly reversed between the spots
                943 O reversed at several places near the spots 8h 6m
                944 C re ersed at several places Darl C displaced slightly to violet near the eastern end
                                  8^{1} 8^{m}
                   of the group
                                          (SS)
            17 944 C reversed between the spots and on the umbra of the largest spot at the eastern end of the group 8^h 7^m (SS)
            20 944 O slightly displaced to red near the western end (S S)
            27 952 C slightly reversed 8h 20m
                                                   (88)
            29 952 C reversed and D slightly dark near spots 8h /m 958 C reversed near a spot (8h 8m)
                   and broken about the centre of the group at 9h 2m (88)
October
             4 958 C broken and faintly reversed (GN)
             5 958 C reversed over almost the whole group 5h 10m (8 S)
              6
```

October 12

- 12 965 C slightly reversed between spot and limb 8h 0m (SS)
- 31 978 C rever ed between the spots 8h lom 980 C broken near eastern spot 9h 7m (SS)
- November 10 981 C reversed Dark C slightly displaced to red near the eastern end of the group 9 20m (S \( \))
  - 19 987 C sl chtly reversed and dark C displaced 1A to red at the north west end of the spot (K V S)
  - 26 990 C sl ghtly displaced to red to the west of the spot 9h 20m (SS)
  - 28 992 C slightly reversed and D slightly dark 8h 15m (SS)
  - 30 Passing clouds

## December

- 3 992 C reversed Dark C slightly displated to red to the west of the group 8h 5m (SS)
- 4 992 C broken at several places and lightly bent to lolet at one place (GN)
- 13 1008 Cknotted all along the group
  - 1010 C b illiantly reversed west of the spot and broken between the umbræ inside the spot (G N )
- 14 1008 1012 C knotted and faintly reversed
  - 1010 Cf intly reversed between the umbræ (GN)
- 15 1010 C cry br ll antly reversed on the two umbræ D also hi lliant D<sub>1</sub> D<sub>2</sub> b b h b<sub>4</sub> also re ersed at the same place (b st onger than b b or b<sub>4</sub>) 8h 45m—9h 10m D dark and shaip to the east of the spot quite outside it 9l 1 m Cloudy with only a few short breaks On December 12 when the spot came into view it was surrounded by an unusually small a d faint group of faculæ but was associated with a bright prominence streak (\(\capsi S\))
- 16 1010 C reversed on the westernmost umbia in the main spot 81 40m (S)
- 18 1010 C eversed on the westernmost umbra at 8h 23m on all the umbræ at 9h 13 (SS)
- 19 1010 C brilliantly reve sed at a point inside the main umbia (8<sup>h</sup> 50<sup>m</sup>) broken along the group to the east of the main spot (S 5)
- 20 1008 C slightly reversed 8h 30 1010 C reversed over the large umbra 8l 35m Faint sun B d seeing (8 S)
- 22 1008 C slightly ie ersed 3h 2m 1014 C reversed and broken and D dark in the western half of the group 9h 31 1010 C reversed at the eastern and of the group 9h 30m 1016 C slightly reve sed and dark C slightly displaced to red between the two spots 9h 28 (SS)
- 23 1014 C slightly displaced to red to the east of the westernmost spot 8<sup>h</sup> 25<sup>m</sup> 1016 C reversed strongly over the whole group strongest over the main umbia 8<sup>h</sup> 28<sup>m</sup> (58)

1907

January

3 1021 The following lines were reversed —

0		
L th d	$\mathbf L  \mathbf m \mathbf p \mathbf l  \mathbf t  \mathbf l \mathbf y$	B ghtl
w l d	ff d	t 1
501869 Fe)	5100 108 (N)	5092 5
22 414 (Fe)	21 829 (F )	51 <del>44</del>
84 279 (N )	5 244 (Tr´o)	56
5109 827 (Fé)	59 231 (Fe)	6
4	62 449 `´	63 5
55 303 (N )	5316 90 (Fe)	5275 6 <del>4</del> 1
5234 791	5480 964 (Fe)	5339
5936 974 (T)	87 354 (Fe)	12 890 (Co)
81 221 ` ´	527 033	43 6 2 (Fe)
5535 061		5 <del>4</del> 39
67 621		90 5
5638 4 8		97 0
79 249		5558 09
D		60 494
D		

#### January

- 10 1034 C reversed to the east and the west of the spot 10h 35m
- 14 1034 C slightly reversed at several places  $8^{h}$  40<sup>m</sup> (8 S)
- 16 1034 C reversed and D dark over a large area to the north west of the group quite clear of the spots 8h 20m (SS)
- 18 and 19 1034 C reversed at sc eral places Dark C slightly displaced to red about the middle of the group 8h 53m O reversed on the group 1044 on the 19th 8h 50m (88)
- 21 1045 1046 O slightly rever ed near both groups 8h 40m (SS)
- 25 1045 C broken to e st of spot 8h 30m 1047 C reversed 8h 32m (SS)
- 27 1044 C slightly reversed 81 45m 1055 C slightly displaced to violet to west of spot 8h 46m 1051 C slightly displaced to violet to west of spot tar away from it 8h 47m (BB)
- 29 1051 Bright continuous spectrum to the east and the west of the leader 101 10m 1052 1054 C reversed on nearly the whole of the two groups Dark C broken about the centre of the groups 8h 30 (SS)
- 31 1051 C roversed over the whole group including the main umbra (SS)

#### Lebruary

- 1 1051 D ey dark and I notted west of the main spot and over a sn ll dot C was not brill antly re creed there Cievesed at the easternment part of the umbia D3 dark east of the spot ll alo g the group C was knotted and broken north of the main spot
- 4 1051 C reversed over the eastern half of the main umbia and over a rather wide area to the west of the spot 81 30
  - 1002 C sh htly displaced to red from the middle of the group to the eastern end of it amount grad ally decreasing from the former to the latter position. C also reversed near the erstorn end
  - 1054 C slightly displaced to rod in the middle of the group 8h 35 1057 Oslightly 8<sup>h</sup> 36 (SS)
- 5 10ol Cknotted and faintly reversed 10o7 Cknotted and D3 dark east of the main spot (GN)
- 6 1051 C reversed at the eastern end of the umbra in the main spot 8h 30m 1057 Bright continuous spectrum at the centre of the umbra in the main spot. Chaversed at that  $S^{1}20^{m}$  (85)
- 7 1051 (faintly reversed on the eastern part of the umbra and to some distance east of it D<sub>3</sub> sharp and very dark only to the cast of the spot 1057 C broken and knotted all along the group to the cast of the main spot Ds also dark in the same place Dark C slightly displaced to red close to the main spot
  - 1058 C knotted and brolen along the group Ds dark in places east of the middle of the 1061 C v zy much broken and brilliantly reversed in one place between the  $(\mathbf{G} \mathbf{N})$ chiet spots
- 8 1057 I displaced 1 dA to red to the west of the spot and close to it Further west it was displaced bodily by the same a nount over a large area the effect was is though 4862 8 was greatly strengthened at that position 8' 35m T displaced to violet by the same amount at 8h 42m amount 2A at 8h 47 H and Mg lines much narrowed over unbiase C slightly reversed to west of spot Displacement to violet was 8A at 10' 25m at looked like a detached cloud at 10h 20 (SS) like a detached cloud at 10<sup>h</sup> 30 (SS)
- 10 1008 C reversed to the east of the group 9h 0m 1061 C reversed on the western half of the easternmost spot but one in the train 10h 15m (SS)
- 11 1061 C knotted and broken along the group D dark between the main spots (GN)
- 12 1061 C reversed between the spots over almost the whole group Dark C slightly displaced to red to the east of the group 8h 30m 1068 C reversed to the west of the spot 8h 29m 1066 C reversed over the whole group Dark F displaced 0 5A to red to the east of the group 8h 33m 1058 C reversed and bent to the west of the main spot 8l 35m (S S)
- 13 1061 C slightly reversed in places D dark
- 14 1070 C reversed over a large area D sharp and dark to the east of the spot 8h 30m 1061 C reversed over almost the whole group and D dark in places C slightly displaced to red about the centre of the group 8h 34m 1066 C reversed Dark C slightly displaced to red to the east of the main spot 8h 37m (SS)

- February—18 1061 C reversed and D dark and sharp between the spots 1069 C slightly displaced to red cont at everal places 10°3 C slightly reversed to the east of the spot 8<sup>h</sup> 35 (SS)
  - 20 1069 C slightly reversed and D dark between the spots 9h 45 1073 C slightly reversed to the east of the spot 8h 30m (SS)
  - 21 1078 C reversed and broken and D dark to the e st of the spot 81 35m 1077 C reversed 8h 35m (S 5)
  - 23 1078 C strongly reversed near spots 8<sup>h</sup> 34<sup>m</sup> 1075 C reversed over almost the whole group F was displaced slightly to red at several places and about 1A to rolet near the centre of the group 8<sup>h</sup> 35<sup>m</sup> 1076 1080 C reversed (SS)
  - 24 1079 C strongly reversed on western spot and between the spots D bright on western spot and d rk between the spots Continuous spectra at several points between the spots B ight F displaced about 1 oA to red to the eat of the western spot also both ways by 1A to the west of the eastern spot 9<sup>h</sup> 0<sup>m</sup> 1075 C slightly reversed and D slightly dark on nearly the whole group 9<sup>h</sup> 6<sup>m</sup> 1081 C reve sed and D dark between spot and limb I displaced about 1 5A to violet from the spot to the limb 9<sup>l</sup> 10<sup>m</sup> Displacement dis appeared at 9<sup>h</sup> 13<sup>m</sup> (SS)
  - 26 1076 C reversed and D dark between the spots 8h 24m 1075 C slightly reversed at several places 8h 20m (SS)
  - 29 1084 C slightly reversed 8h 35m (SS)

SOLAP PHYSICS OBSERVATORY KODAIKANAL 2nd July 1907

J EVLRSHED

Ag Director Kodarkánal und Madras Observatories



# Kodatkanal Observatory.

## BULLETIN No XII

# LIST OF PROMINEN( ES OBSERVED BETWEEN 1907 JANUARY 1 AND 1907 JUNE 30

This list is a continuation of that published in Bulletin No  $\lambda$  and contains all the prominences that were recorded visually as well as those photographed with the spectroheliograph. The visual observations were made with the 3 prism I vershed spectroscope attached to the 6 inch Cooke refractor using the C line. The photographs were taken in the line II of calcium. The image forming lens of the spectroheliograph is a Cooke Photo visual objective of 12 inches aperture and 20 feet focus, the image is therefore about 2.8 inches (58 millimetres) in diameter. When prominences are photographed in calcium which are not recorded visually. Can is entered in the remarks column, but it must not be inferred that these prominences were composed of calcium vapour only without hydrogen only a few cases have been recorded of a calcium prominence without hydrogen and stall fewer of a hydrogen prominence without calcium and in all these instances the evidence is inconclusive either from a difference of time between the visual and photographic observations or from the effect of poor seeing

Owing to the great intensity of the calcium lines it usually happens that more prominences are recorded on the photographs in a hazy sky than can be seen in the C line

The general distribution of the prominences during the I eriod covered by these observations will be given in a separate bulletin

In the lists which follow the Indian Standard Time ( 3 hours fast on Greenwich Mean Time) at which each prominence was observed is entered in the second column. The true latitude corrected for inclination of the sun's axis in the direction of the line of sight is entered in the fourth and fifth columns, and the heights measured from the chromosphere in the seventh column. The observer a initials are given in the first column. They were S. Sitarama Aiyar (S.S.) G. Nagaraja Aiyar (G.N.) and S. Muthuswamy Aiyar (S.M.)

<b>D</b> t db		H IS~	В	Lttd		, , ,			
		IST		N th	8 th	Lmb	II lt	R m k	
1907									
Jnu yl	G N	9 20 18 15 16 14 10 8 7 4 4 10 5	15 1 3 05 1 1 1 1 8	54 40 36 31 28 5 24 5 20 5	20 5 29 5 19 5 (3 77 71	EDELLCLTUKWW	30 30 60 & 75 30 80 30 20 20 60 30 40 30 80	D bl Sl t thw d Tpflw f lt—18 D M tth tp m  T t tdt lmb by tw tm w l g p	
		4 2 9 59 57 56 5 4 5 2 50 2	3 1 05 15 05 2 1 9	15 40 435 47 555	64 42 28 12	W W W W W W W W W	30 120 30 30 2 46 20 30 40 50	Dt h l	
Janu y 2	G N	9 27 26 20 20 49 48 48 41 10 40 37 37 35 34 32 31	1 0 5 4 5 1 5 1 5 5 5 5 1 2 5 5 4 7 5	79 58 42 37 3 9	2 28 31 17 5 51 52 80 77 17 30	***************************************	20 20 80 ± 80 ± 75 1 60 60 30 15 20 40 80 80 80 40 15 20 45		
Jan y 8	G N	8 57 57 5 55 52 50 48 49 9 8 7 5	2 2 5 1 1 4 1 1 8 5	42 38 17 5 11 5	16 5 40 5 47 5 64 74 70 5 17	ED LOE WWW W	40 40 20 30 45 40 20 60 45 5	25 wyf mlmb	
J u y 4	G N	9 11 10 8 7 6 5 3	5 6 05 1 1 1 05 1	49 225 0 18	4 8 22 5 42 49 54	E F E E D	80 4 80 15 15 40 15 30 45		

Dt db		Ħ	H ISI B	Lttd				
Dt db		ISI		N th	8 th	Lmb	H ght	R m k
1907								
nay4 — tā	CN	9 0 0 8 59 9 3	1 1 0 4		58 5 61 67 5 77	L D I	30 40 10 7	20 wyf mlmb Sp tdf mlmbby25 lttlt-75 79 W
		34 34 33 30 40 80	05 0 3 05 3		78 5 72 6) 38 31 5 32	W W W W W	15 15 60 15 30 20	r t 10 wyf ml b
		8 8 27 6 20	2 1 5 4 9	14 17 22 28 9 58 5		W W W W W	20 20 30 20 50 90	
nu y7	G N	8 50 47 10 1 40 10 37	2 1 2 15	19 20 6 5	12 14 16 5 23	P E I E I I	60 20 1 12 20 (0	Pt fth dpl dt dl t 20A Pt 108 d105 5 kl lly h g L
		36 85 9 3	1 05 25 1		57 61 5 86 82 7 72 71 62 37 5	W W W	20 10 20 60	
		8 59 58 57 3 58	5 0	6 5 43 5 45	92 37 5 27	W W W W W W	15 10 55 75 0 20 10	
у <b>9</b> 8	89	9 8 1 3 1 8 38 33 33 33 33 30 )	5 3 25 1 15 1	49 20 17 5 )	12 14 17 8 30 5	F F F F E	80 25 20 31 25 120 25 40 85	N w ttp Sl t thw l D t l lf mlmb  N w ttl Sl t tw l  S N t
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ú y 18	GN	8 50 0 45 45 45 89 39 30 28 59 57 56 29	15 205 1 15 41 15 42	60 5 48 44 18 9 40 52 63	4 5 23 5 45	F F E E E W W W W W	45 4 30 15 1 30 10 30 40 20 30 10	\[ \begin{aligned} \( \text{id} \\ \text{Dtld} \\ \text{At} & \text{lgfw} & \text{tl} & \text{dith} \\ \text{tl} & \text{ly bght} & \text{pt} & \text{C lgltly d} \\ \text{ll dt} & \text{l P m} & \text{w} & \text{D} \end{aligned} \] \[ \text{C} & \text{ph tg ph 8h 29} \]
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## NOIES

1907

January

- 8 Lat 12 to 17 E Very bright E displaced about 1A both ways at Lats 13 and 17 Metallic Bright lines -4922 2 (faint) 4924 1 0016 3 5018 5 b b b b 234 8 5269 / 5276 2 5233 8 (5283 8 was bright on the rod side and dark on the violet side) 53168 D D D was displaced toth ways at Lat -13 L Height at the tallest place was about 90 at  $8^{\rm h}$   $58^{\rm m}$  but the prominences at Lats -13 and -17 had coalesced
- 14 Lat + 12 E A streak connects the base of this prominence with the top of the last There is a faint extension of the piom nence for 5 further cast
  - Lat 41 E A v ry bright cloud with its base 80 away from limb. It is connected to the limb by two streaks the southern one brighter and meeting the limb at Lat -41 E and the eastern one fainter and meeting the limb at Lat - o4 H
- Lats -10 -3 +1 +11 W Chromosphere elevated continuously from Lat -14 W to lat +16 W A streak parallel to limb and 70 high at Lat -18 W

  19 Lat -15 W Mg Na and te lines bright O slightly displaced bodily t violet at Lat
- 14 W

February

- 2 Lat +16.5 W Very bright metallic D displaced 1A and  $\Gamma 1.5$ A to red at I at +14W (hromosphere alghtly elevated from the prominence as far as the equator
- 4 Lat 1° and 16 E Very bright metall c Rapidly changing Surmounted by a large taint fracmentary prominence 210 hi h and extending from the equator to I at 20 E Na Mg I e lines nd 66 7 strong at Lat 12 and 15 E Prominence toms well visible in Na and Mg C slightly displaced both ways at Lats 12 and 15 D lorm completely changed at 91 17
- 8 La + 37 W A doud with its base 2 away from limb The northern and of the base is connected to the last prominence by a Ca streak Anothen broken Ca streak proceeds westwards from it as far as Lat + 18 W The Ca cloud was 80 high and 135 awy from limb at 8' 42m and 75 high and 125 away from limb at 9h 53

  10 lat + 10 W Bright metallic Na and M and Le lines bright A cloud 60 high was
- floating over it with its base about 120 away from limb
- 14 I at 18 W Brilliant Metallic Bright lines —4922 4 4924 1 4934 2 5016 3 5018 6 0031 2 b b b 5197 8 5204 8 5200 2 5208 7 5234 8 5270 2 5284 2 5816 8 5868 0
- D I) and 6677 The prominence was rapidly changing

  18 I at s 20 14 7 + 1 W Metallic the bright lines were strongest at Lat 14

  W At 81 50 to 91 50 the lines observed were -

Tro- fig. 10 3. 50 me mes opserved were —	
49 2 0	5238 1
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4984 2	5287 5
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4973 6	<b>5269</b> 6
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5016 8 (fant but broad)	5276 <b>2</b>
5018 6	5283 8
5081 2	58168
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5195 6	512 5
519 8	429 9
5204 8	484 7
5206 2	5447 1
5208	5455 8
5216 4	5585 1

- February contd
- Prominence form easily visible in b b b and b but rapidly changing C D and the b g oup slightly displaced both ways at Lats 14 16 5 and 20 W Image very unsteady towards the end of the observation
  - 19 Lat 1 W Rapidly changing eruptive metallic intensely bright almost white in the centre Spikelike jets to west of prominence 10 high only in Ca
  - Lat -20 E Top extends as far as Lat -7 E in hydrogen and as far as Lat -4 in Ca I he stem at La -18 E was metallic. The whole was visible in Na and Mg
  - 22 Lat -65 and -55 W Ca In hydrogen there we e a few prominences seen about the place when beginning the observation but they disappeared before coming round the circle to the same place again
  - 23 Lat + 26 E Metallic Bright lines observed were -49224 49241 50163 b b b b D D 6677 the whole prominence being visible in b b b b D D D and F were displaced to red at several places 3A in | T and about 2A in D to violet at Lat + 24 E
  - 26 Lat + 20 W Metallic Greater part of prominence well visible n Na and Mg In Ca the e was a discontinuous streak 130 high slanting southwards from the top The streak was faint at 8h 19m and strong at 8h 44m
- March
- 2 Lat + 21 E A detached Ca cloud connects with prominences at Lats + 24 5 and + 21 E
- 1 Lat 21 E Fruptive F displaced 1A to red at several places displaced to violet on nearly the whole prominence greatest amount 4A at the base D displaced 3A to violet at the base Bright lines obseved —

492 4	<b>5206</b> 2
4924 1	5208 7
4934 2	5226 9 ?
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5018 0	52348
b	5269 7
Ъ <sup>1</sup>	5276 2
b	5288 8
Ъ	5816 8
<b>5</b> 189 0	5863 058 o 7
5197 8	5362 944
5204 8	Im g unsteady

- 7 Lat + 60 W Rapidly changing 80 high at 9h 22m Not visible in Ca at 8h 30m but stro g and 30 high at 9h 10m
- 14 Lat +63 E On Two very tall treaks detacned from limb with a broad patch extending to Lat + o0 E at the top of one of them Probably eruptive Absent in Ca photo graphs taken at Jh 54<sup>m</sup> and 10<sup>h</sup> 35
- 29 Lat + 1 5 E Intensely bright eruptive It had the distinct appearance of being made up of innumerable spikes the ne at Lat + 15 E showing a slight displacement to red in C Rapidly changing The two ends of the prominence were very bright in C and visible in b b D and D
- Aprıl
- 12 Lat + 18 W Metallic There was no prominence at this position at 8<sup>h</sup> 55<sup>m</sup> but C was slightly displaced to red 30 high and slanting westwards at 8<sup>h</sup> 58<sup>m</sup> Very rapidly changing
- 25 Ca flocculi photographs showed several dark streaks inside the disc but near the limb from Lat +9 to +40 L They probably correspond to the long group of prominences observed on the three previous days
- 26 Let + / E Top broad and slants northwards It meets limb again at Lat + 15 E in Ca 50 only in Ca Na Mg and he lines bright at base. There was a dark marking on the Ca flocculi photographs from Lat + 9 to + 40 E corresponding to the streaks noted on the provious day.

May

- 20 Lat 84 L Faint Nothing here in the Ca photographs at 8h 39m and 9h 5m A Ca streak from this position passes through the top of the next prominence as far as Lat 86 W
- 21 Lat 38 E A cloud about 16 long connected to limb at Lat 43 E It is also connected by delicate Ca filaments to the last and the next prominences Connected by delicate filaments at 12<sup>h</sup> in hydrogen
- 25 Lat 88 C Rapidly changing Very bright 25 high at 8h 41m and 40 at 8h 44m Becoming fainter at 8h 45m It became a faint slanting streak at 8l 46m
  - Lat + 15 W A cloud away from limb The Ca prominence was 6 broad connected to limb from Lat + 3 to + 9 W and slanting northwards The Ca prominence was gradually growing in height the total height being 130 at 8<sup>h</sup> 49<sup>m</sup> 165 at 9<sup>h</sup> 6<sup>m</sup> and 270 at 10<sup>h</sup> 45<sup>m</sup> It became detached and very much smaller in size at 10<sup>h</sup> 45<sup>m</sup> A bright Ca spot at Lat + 19 W was ascending at an approximate rate of 15 7 miles per second between 8<sup>1</sup> 49<sup>m</sup> and 9<sup>1</sup> 6<sup>m</sup> and 3.2 miles per second between 9<sup>1</sup> 6 and 10<sup>h</sup> 45<sup>m</sup> the mean velocity being 9 3 miles per second
- 30 Lat —8 E Eruptive C slightly displaced to red Slants northwards Height 35 at 81 43m and 55 at 81 47m Changing rapidly
  - Lat —7 W lwo streaks slant southwards from near the base Druptive in Ca 210 high at 8<sup>h</sup> 7<sup>m</sup> 330 at 8<sup>l</sup> 19<sup>m</sup> and about 50 only at 8<sup>h</sup> 44<sup>m</sup> Form rapidly changing in both Ca and hydrogen
- June 25 Lat -14 W lop flows as far as Lat 4 W the westernmost point being about 60 high Ca prominence shows another streak flowing westwards

Soiar Physics Obstruatory Kodaikánai November 8 1907

J EVERSHED

Ag Du ector Kodarkánal and Madras Observatories

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## Kodaikanal Observatory.

## BULLETIN No XIII

## LIST OF PROMINENCES OBSERVED BETWELN 1907 JULY 1 AND 1907 DECEMBER 31 WILH AN ABSTRACT FOR THE YEAR 1907

This list is a continuation of that published in Bulletir No AII and contains all the prominences observed and photographed. The in truments and methods of observations were exactly the same as those described in last bulletin. The visual observations were made chiefly in the U line of hydrogen and the photographs were taken in the H and K lines of calcium.

The time used is Indian Standard Time ( should fast of Gre nwich Mean Time)

The visual observers were K. V. Sivaiama Aiyar (K.V.S.) S. Sitarama Aiyai (S.S.) G. Nagaraja Aiyar (G.N.) and S. Mithuswamy Aiyai (S.M.)

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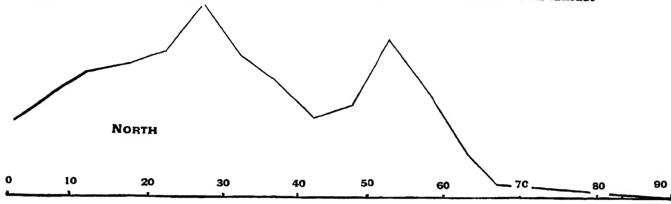
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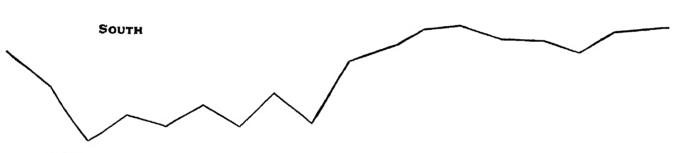
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## REMARKS ON 1HF DISTRIBUTION OF THE PROMINENCES IN 1907

The general features of prominence distribution during the year are shown in the accompanying diagram which represents graphically the mean profile areas found to each zone of 5 of latitude





Unlike the provious year the zonal distribution in 1907 is quite unsymmetrical in the two hemispheres. The polar prominences which have been so marked a feature in both hemispheres since 1905 have practically ceased to exist in the north although strongly epresented in the south. In the north again well marked maxima of activity are the wind the zones 25 — 30 and 50 — 55 whilst in the south the entire region between 10 and 45 has been almost uniformly prolific

Dividing the year nto two p riods of six months birings out another fit to c namely a great filling off n mean neas in the northern zones during the s cond half of the year notwithstanding a slight increase in the mean frequencies and it is curious that a similar reduction of activity affecting the northern maxima occurred during the second half of 1906

The d stribution of the southern prominences has remained practically the same throughout the year. The total ctivity of each hemisphere of the sun compared with the previous year may be inferred from the following table —

## MEAN DAILY PROFILE AREAS OF PROMINENCES

	1906	1907		
No th	8q t	S <sub>I</sub> mnt		
S uth	2 51	1 92		
Tt1	2 17	2 27		
T 0 I	4 68	4 19		

In the abstract on page 456 tables are given showing the monthly querterly half yearly and yearly frequencies a well as the mean heights and lutitudes derived for the two hemispheres. It is to be noted that the mean frequencies are derived from the total number of days of observation without allowing for partial or imperfect observations, and the smaller frequencies found for the months of June July August and

November are probably mainly due to the unfavourable weather in those months If allowance is made for the partial ob crystions the half yearly frequencies work out as follows —

Ρl	Nubfbgdytm 8dyfptlbt fptlbt qlttl pltdy	M f l l d g l h th	yp d m q t 1 S th	Ttlm fqyl dm
J u y 1 t June 80	165	8 2	11 4	19 7
July 1 t Decembe 81	182	8 4	108	19 4

Metallic p ominences were of frequent occur ence 111 having been recorded. Of these 104 were confined to the sunspot zones the nen and extreme latitudes observed being given in the following table —

	V mb	đ đ	M Ittud	M. Ittud	D t m.	l t tud
No th	4	•	15 7	15 7	+8	+ 44
S th	50	)	15 6	15 6	_ 7	<b>—</b> 50

The remain no seven were widely distributed in longitude but occurred in a nairow zone of south latitude entirely outside the spot legions the mean being — 72. The find metallic elements observed in these high latitude prominences were Na. Mg and Fe while many of those in the spot latitude gave in addition the lines of Ba and Ca together with a considerable number of unidentified lines probably including Ni. Mn. Cr. and Ti

Sixty prominences of 2 minutes o more in height were recorded during the year. Twenty four of these were in the northern hemisphe e and thirty six in the outhern. I welve of the latter occurred in the high latitude zone of activity. having a mean latitude of -72. The highest altitude was recorded on March 14 in a transient erupt on in north latitude 63. In the calcium photograph this reached  $6_{2}$  minutes. Another short lived prominence nearly in the same heliographic position was observed and photographed on May 11 in latitude +59 it attained 2.0 in calcium. Eruptive prominences attaining considerable altitudes were also photographed on the following dates - May 3 + 20 E (290) May 25 + 15 W (270) May 30 -8 W (30) July 4 -68 W (315) July 25 -26 W (240)

[JE]

456
ABSIRACT FOR 1907

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## VOLES

1907

July 8 lat -9 W Br ght not 1 etallic Narrower at top A streak connects its top to the limb at L t -4 W A Ca st cak 12 long proceeds northwards from the top Height 0 in Ca

4 L t - 4 W Ca Intenely bright eruptive At 8h 14m it was detached and 240 high with the love end about 80 from the limb. At 8h 18 it was 315 high and connected to the limb by the steaks. At 5 41 it is parated into two slender prominences 150 high and connected to the limb at Lats - 3 and - 5 W

6 Lat — 41 L B1 ht There wn a very bright point at the base at I at — 40 L Not met ll A low Ca st cak con locts t to the limb again at Lat — 6 E

14 Lat — 3 E Slants so the ids Two slender treaks from it mee the limb at Lats — 31 and — 41 E D D b b b b, 5316 8 2018 6 and 4924 1 were bright at the b se

16 Note 1 Lat — F A st cak 40 high slants eastwards from it— The treak is lenger and about 0 high in Ca

Not 2 Lat — 28 W > rmounted by a strip extending from — 30 to — 18 W Base 5

b oad in Ca

17 Lat - 26 5 W Ca A long clo d extending from Lat - 38 to - 15 W Its wostern end w 80 high

August 2 L t + 19 W At 101 10 th rc was no poinence there lut C was all htly displaced to red o or 2 of the clion osphere. At 101 11 short jets be an to appear and the displace ment became less and less till templetely disappeared at about 101 15m.

September 4 I at -10 5 W. A Ca treak proceeds from its top as fix as Lat -27 E and another as

10 Lat + 61 W The top meets the linb again in Ca at Lat + 48 W

15 PA 180 - 250 n texaminel and the rest throu h thick curus Ca photograph 91 51m nly vost limb vi ibl in it

21 Lat - 23 5 W Slarts as far as - 30 W Southern and 45 high in Ca

26 Lat - 10 5 W Top extends in Ca as fa as Lat - 18 W There is above it a detached Ca str k 50 high

29 Lat + 18 W A streak f (m he top neets the limb again at T it + 8 L height of streak 35 The Ca prominence is 6 bload

October

10 Jat + 46 W Notling een here in Or at 9h of O slightly displaced to violet at top
11 lat - 38 W lhe top flows westwards and meets the limb a rin a Lats - 90 rind - 6

W Height 120 in Ca

12 Lat + 29 W Not found in Ca noi in hydro en at 9 5 At 3 18 O was slightly displayed to red in it

18 Lat + 11 I Rapidly changing very bright metallic

14 Lat + 10 1 Metallic Bright lines —6677 (H) D D 53168 b<sub>1</sub> b b<sub>2</sub> b<sub>3</sub> 50186

30 Lat + 9 and + 1 E Wet at top Ca prominence slants southwards reaches to 120 at + 2 E and to 150 at - 5 L and nearly meets the limit gain at Lat - 13 E

1907

November 22 Lat +8 5 and +22 5 W Ag oup of about half a dozen eruptive and metallic prominences A streak slants g no the ards from the top was 90 high in hydrogen at Ji 30 but it was 150 h gh n Ca at 8 22m I he prominenc s were all rapilly changing especially those at Lat + 9 and + 16 W F was displaced there about 2 A both way lut the direc tion and amount were rapidly changing (9h 3 m) Bright lines —6677 (Ho) D D 5 301 (Fe) 5316 8 (Fe) 5283 8 (he) 5276 2  $\binom{1}{0}$  5234 8 (—) 5194 4 (N1 Mn) b<sub>1</sub> b b<sub>3</sub> 5018 6 (Fe) and 5016 0 The prominence at Lat + 9 was completely visible in 6677 D 5316 b b and b

- December 1 Lat 17 E een in Ca photographs at 8h 2m and 8h 57m but not at 9h 48
  - t-14 E B 1 ht There were b ut half a dozen prominences 1 high between I at -11 and -21 E They were continuous in Ca 5 Lat - 14 E
  - 9 Lat -36 W Ch n ing and mo e continuous: Ca Hoi ht 120 in Ca at  $8^1$  48
  - 17 Lat -8 W B ght metallic D D 53168 b b b b 50186 and 4)24 1 brilliant
  - I at + 47 W Ca promi ence 120 high and 12 broad at base A C stream 8 long p oceeds so thwards from it
  - 6 Lat 62 E Connected by a Ca streak with the last prominence Another Ca streak extends as far as Lat - 65 E
  - 27 Lat 7 E b b b, bright Height 25 in Ca A Ca streak from the top extends to Lat - 13 E
  - 28 Lat 12 W D D b b b, and b, bright and C slightly displaced to rol at the southern end

Kodaikánal

28th May 1908

C MICHIE SMITH

Director Kodaikánal and Madras Obscivatories

